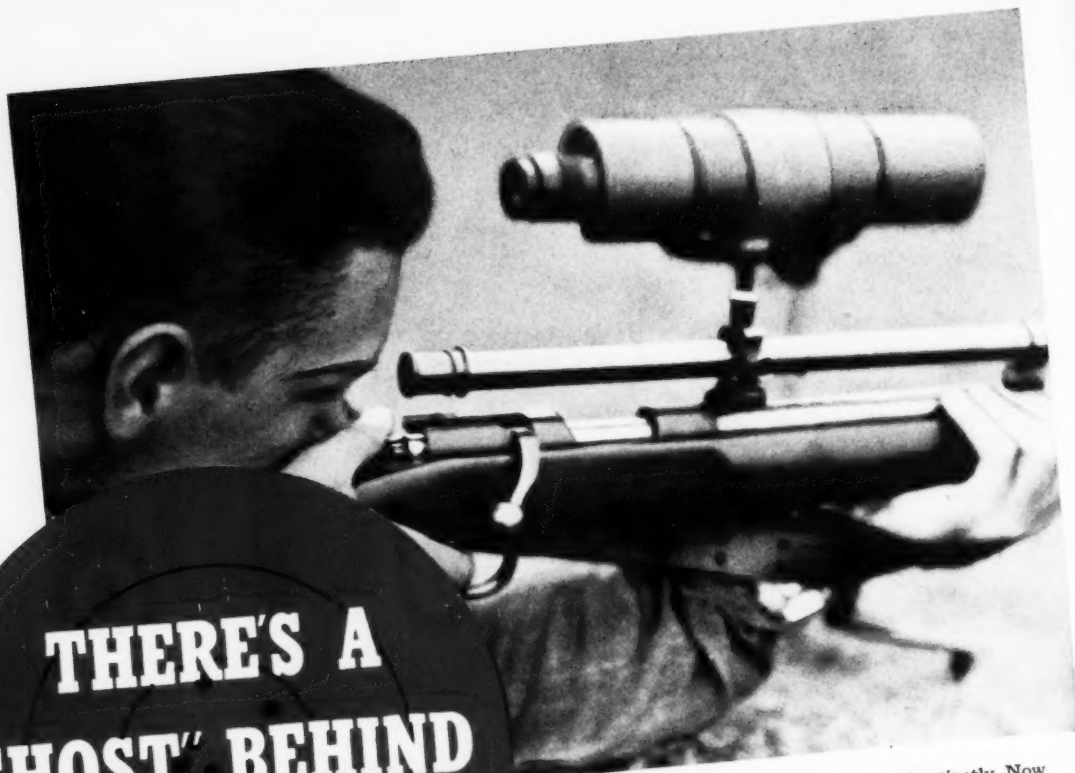
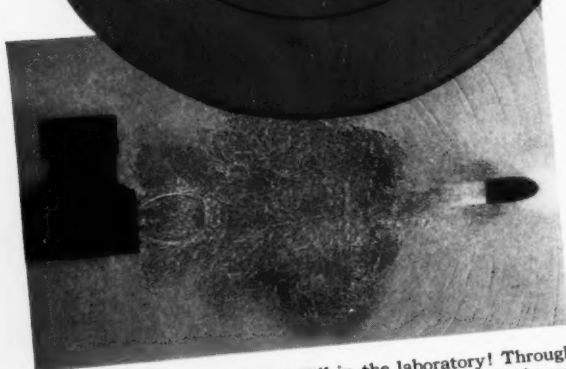


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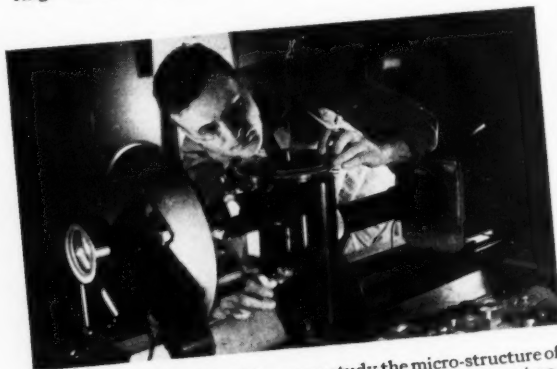


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THE AMERICAN RIFLEMAN

OFFICIAL JOURNAL OF THE NATIONAL RIFLE ASSOCIATION OF AMERICA

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Courtesy Capt. Paul J. Roberts, California National Guard. Shows Captain Roberts and son Paul Jr. on the California National Guard Range at San Luis Obispo.

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POWDER SMOKE

INDEPENDENCE DAY 1776-1940

JULY 4TH. A Nation filled with prophets of doom. One third of the population actively opposed to the policies of the Government—more citizens enrolled in the armed forces of the enemy than in the service of our own Army! And the Army—poorly equipped, torn with internal jealousies, and suffering from gross inefficiency in the services of supply. Politicians making a political football of the National Defense. Much of the civilized world approaching exhaustion from prolonged warfare brought on by the struggle of dictators for power or for wealth to renew exhausted national treasuries. What lies ahead?

What can lie ahead except the ruin of civilization; the final wrecking of that Great Ideal which drew men from Europe to America? The Ideal of a free people; of men worshipping the God of their own choosing; of men making their own laws for their own government through the free election of their own government officials; of men enjoying Liberty while subjugating License.

* * *

Well, what *did* lie ahead? For the picture is not that of July 4, 1940, though so many of the elements seem the same. The picture is that of July 4, 1776!

Ahead lay the Declaration of Independence. Further ahead lay the Constitution of the United States of America and the firm establishment of a Nation whose citizens were to enjoy a greater measure of those things which make for comfort and the enjoyment of leisure than any other nation in the history of mankind. Ahead lay the establishment of democratic or republican forms of government for men over a major portion of the world's surface.

But on July 4, 1776 few had the foresight or the courage to conceive such an outcome. Many in the Congress at Philadelphia were hesitant or opposed to the Declaration. Fifty thousand Americans were Loyalists in the service of the British Crown—only half as many were under Washington in the jealousy-ridden Continental Army. Scarce a man could be found in Europe or Asia who believed, or had given a thought to, the possibility of freedom of speech, of worship, of government by ballot.

In America there *were* men who believed! Men who were willing to sacrifice personal fortunes. Men who were willing to give their lives. Men who were willing to risk the loss of friends, the breaking up of their families, the slander of

political enemies. Some of their names have been permanently inscribed in the Valhalla of Freedom. Others gave as much, unknown and unsung, but *their* contributions made possible the ultimate result.

* * *

July 4th. Prophets of gloom. Cowards. Traitors. Cheap politicians. Jealousy. Inefficiency, bungling and hysteria. We have them all with us again in 1940. But we have many things that we did not have in 1776! All over the world men have tasted freedom—and having tasted it they will not, for long, allow it to be taken from them. Men have slowly learned the difference between liberty and license. In America the quarreling eastern seaboard Colonies have become a great federal Nation, integrated and powerful. Though we may have traitors within our borders, their number is immeasurably smaller in proportion than the Loyalists of 1776—and the efficiency and power of our agencies to control them is immeasurably greater. The thing we have most to fear is *fear*! *Fear stops thought. Fear causes unsteady hands! Fear turns the shadow of a little man into an awesome monster!*

Courage wrote the Declaration of Independence. *Courage* turned the ideology of the Declaration into the practical fact of independence and liberty. *Courage* gave men the power to *think*, steadied their hands, turned the spotlight on awesome shadows.

In times such as this, the floundering of Fear are more likely to lead to the tragedy of War than are the clear-headed steps of Courage.

Riflemen of America, *your* heritage is the heritage of *courage*—the heritage of the Dark and Bloody Ground; of King's Mountain; of New Orleans; of the Alamo; of Manassas and Gettysburg; of Santiago; of Chateau Thierry.

On this Fourth of July be undisturbed by either the resounding vaporings of the professional "patriots," or the whimpering wails of the "prophets of doom." Take one young man, or more if you will, to your target range. Start him, as someone started you, on the pathway of small-arms marksmanship. Train him in the tradition of America's riflemen. Tell him the story of July 4th, 1776—and of what followed.

We, in this generation, have men of the same cool, alert courage as those who led America—and the world—from the darkness into the light, generations ago. Some will be added to Freedom's Valhalla—most will again do their part unheralded, but their contributions will make possible the final victory.

Sons of the blue-steel tube—Fall In!

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PARSON BYROADE'S SERMON

By COL. H. P. SHELDON

IT WAS THURSDAY, and Parson Byroade labored to decide upon a text for his sermon. Perspiration befogged his spectacles and ran rivulets into the hot, damp, linen stock girdling his throat. The time was only a few years past the middle of the 18th Century. Throughout New England and the scattered settlements of the New Hampshire Grants, religion as it was expounded from the pulpits dealt far more generously in hell-fire and damnation than it did in charity and toleration among men. Parson Byroade swabbed his dripping brow with a sodden swatch of linen, and reflected that not in all the horrific scenes of Revelations could he find anything to match the heat and discomfort of the blazing August day outside. He was by nature a kindly, forgiving sort of man, and one who found it hard and strange to rant of eternal torture to a congregation set down in the midst of a savage wilderness, where the members, old and young, daily endured privations and sufferings more intense than anything that he, with the sombre aid of the Scriptural prophets, could threaten.

Simon Hendee, the lean, hard-bitten Ranger and Indian fighter, came past with his long rifle in the crook of his arm. He paused to put his head in at the open door, and remarked, having guessed the nature of his friend's preoccupation: "Don't envy you a mite, Parson. It's a damned hot day to be scraping up brimstone to pour over your flock come Sunday service!"

Reverend Byroade had some sort of a notion that he ought to protest such unseemly levity, but he never could bring himself to do it. Simon was an ungodly man, to be sure, but he was a kindly man, save as to Indians, and a generous one. There was a bond of affection between the lank scout and the little clergyman that defied the harsh orthodoxy of the times.

Simon departed presently with his peculiar, long, easy, distance-eating stride, leaving his friend to consider the strange vicissitudes in the life of a servant of The Prince of Peace in this new and dangerous country. The Reverend's cabin was built against the inner wall of the stockade. By standing on the bench where he now sat he could reach the loop-hole which he would be expected to man in case of attack by the savages. His brass blunderbuss stood in a corner ready for instant use. He had never fired it, and he hoped devoutly that he never would have to fire it. Simon had drawn the old charge from the gun, tested the old fashioned wheel-lock, and reloaded the clumsy weapon with a generous handful of fresh powder and three ounces of square lead slugs.

"I'll tell you one thing, Parson," remarked the gaunt Ranger with a saturnine smile, "when you tech her off, if ye ever must do so, *somebody's* bound to git hurt! You c'n take consolation in that!"

The Reverend Byroade's sweat-dimmed glance fell on the gun, short, squat and clumsy, concealing in its cold bowels the elements of violent dissolution and destruction, and his lips moved.

"Lord, Thou settest a hard and bemusing task for Thy servants who labor for Thee in this dreadful wilderness! Thou stayed the sword of Peter; yet in Thy infinite wisdom, Thou putttest into my feeble hands a thing of sparks and brass and belching thunder for employment against those who do come up against us. Lord, I am Thy fearful servant! I conceit that Brother Hendee has grievously over-charged the piece. Nevertheless, if occasion demands, I shall fire the ungodly instrument, and may the harvest be abundant!"

Inside the stockade a half dozen log cabins and store-houses had been built against the heavy log walls. Outwardly, on all sides but one, the hot, somnolent forest closed in upon the rude settlement. To the southeast the land lay wide and open a thousand paces from the palisade to the banks of the creek that drained the valley. This width of fertile land, unencumbered by the heavy forests, was known as The Intervale, and here the settlers had their crops of beans, corn, pumpkins and tobacco.

All the inhabitants except the Reverend Byroade, two housewives who were engaged in making soft soap, and one other person, were in the fields hoeing and grubbing the weeds from the crop rows. The pleasant chatter of the two soap makers was broken presently by a voice raised in what its owner obviously believed to be a song. The Parson recognized the origin, and rose with a sigh to go to the window.

"'Tis that poor, graceless wretch, McKinnon, far gone in his cups again," he muttered. "Where, I wonder, does the vagabond get his wicked drink?"

Making uncertain progress across the open space between the cabins came a person more disreputable than any the Reverend remembered having seen during his missionary labors about the docks in Boston Town. Beneath a coon-skin cap, from which most of the fur had been worn, a pair of bleary eyes gazed vacantly from a soiled and ruined face. Spittle drooled from the open mouth and mingled with the perspiration that dripped upon a torn and filthy waistcoat. The man was a foul thing to look upon. A brown flask projected from a raddled pocket as the creature reeled through the open gate of the stockade, and disappeared down the slope toward the creek.

The Reverend Byroade made a sound expressive of infinite disgust. But after a moment he brightened, and turned again to the bench to pick up his quill and parchment. He had found his Text for the sermon.

It was from the first chapter of Joel: "Awake, ye drunkards, and weep: and howl, all ye drinkers of wine. . .

For a nation has come upon my land, strong, and without number, whose teeth are the teeth of a lion, and he hath the cheek teeth of a great lion."

An emergency was an emergency, whether caused by locusts or Indians. The heat was forgotten as the little clergyman sent his pen scratching furiously across the page. It was a good sermon. The Reverend Byroade had a poet's appreciation of the majestic beauty of the Old Testament, and all unwittingly his thoughts were framed in the sombre, smouldering cadences of the old foreboders. He liked the part in the "fourthly" wherein he described in words that rolled like distant thunder, the moral decay of drunkards and wine bibbers; how the corrosive poison rotted away the spirit of man; how honor and truth and courage and love and pity and charity departed, leaving naught but a soulless loathsome lump. As he sifted a drift of sand across the last page, and let the stuff slide back into the sand-box on the table, there was a distant shout, a babble of voices, and behind it all a wild, ferocious gobbling, which, though the Reverend Byroade heard it now for the first time, he recognized. A cold shudder dried the moisture on his brow. He heard next a single shot, sharp and clear and deadly, and then the sound of many running feet.

The Parson picked up his blunderbuss and stepped quickly out the door.

Meanwhile Simon Hendee, having dropped his irreverent remark with the preacher, had gone out through the gate. On the slope overlooking the fields where the settlers were

at their labors, he found a seat in the shade, and sat himself down with his long Gove rifle across his knees. The weapon was his most prized possession. The long, heavy, butternut-brown barrel threw its half-ounce ball with deadly accuracy. It was one of the first "patch and ball" rifles to find its way into this northern frontier, and, for the times, its range was incredible. No one but Simon knew how many savages had felt its fatal breath in the years since that awful, long night in the Indian village, when, himself bound and helpless, the fiends had forced his eye-

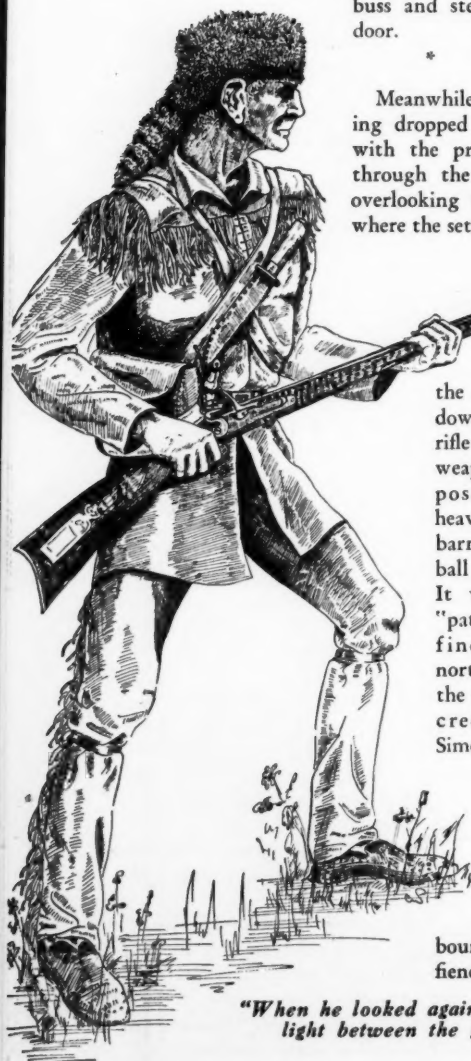
lids back with their fingers so that he had to witness the agonies of young Peter Hendee at the stake. He knew that the Indians had some sort of religious notion about such doings. It was bad luck some way if a victim at the stake died off on them before sunrise. They had good luck with his brother, though, for the lad had been a strong youngster. He was a lovable one, too. Simon made the devils pay for that, and hoped that he wasn't through yet. His big, hard hand gently rubbed the figured maple stock of the rifle, while his eyes followed the forest edge, and dwelt upon the men, women, and children who made the population of Number Ten, at their work and play. He felt a mild and friendly contempt for them,—that condescension of the fighter who protects the peaceful-minded householder and citizen.

They'd fight, all right; he'd seen them do it, with the men firing while their women loaded their muskets and the young ones melted lead and ran bullets; but they weren't seasoned to it. They couldn't ever seem to learn to keep on being careful. Give them a scare, and they'd be vigilant as eagles or foxes for as much as a week, maybe, and then you'd find them forgetting to take their guns into the fields, or they'd be letting the lookout come down from his perch to mend a plow. They'd let the kids get too close to the forest edge, just as that little Molly Pitkin was doing right now. Some damned Injun would fancy that bright hair of hers. Simon rose and moved nearer the little girl, who was engrossed in some childish hieroglyphics which she was tracing on the ground with a bare, brown toe. He heard McKinnon's maudlin song, and watched the man as he went unsteadily toward the creek and disappeared in the willows on the bank.

"Poor devil," thought the Ranger compassionately. "George was a sound an' able man up to the time he came home to find his wife dead an' scalped and his young 'uns toasted like so many trout an' stuck on stakes in the dooryard. I can't say I blame him a mite. He'll have some sort o' sorry fun down there by the crick, singin' an' talkin' to himself about God knows what, an' gittin' drunker'n a biled owl. I must recollect to tell the Preacher about that. If I don't, he'll be preachin' a hell-fire sermon on George, one o' these days, an' that wouldn't do nobody any good. Wisht I had a horn o' rum an' good, cold spring water, myself."

His thoughts drifted back to Indians and their ways. There were two things, and only two, that he liked about them. They sartin sure knew how to be hospitable to a stranger if they liked him. That was particularly neat for a bachelor. Some of their squaws were right pretty, too. And then they'd got it all fixed up and established as an indisputable fact that a man oughtn't to be let do a lick of work, such as, for instance, William Prescott was sweating over down there in the bean hills. A man was made for fightin' and huntin', and that was a good thing, thought Simon.

Down by the creek the water looked clear and cool, and George McKinnon, being vaguely aware of some physical distress, kicked off his broken moccasins and shoved his bare feet into the stream. The coolness sobered him slightly, and since sobriety was something to be avoided, he pulled his feet back and had a gulp of raw rum from the bottle. He sang a little and talked for a little to someone who was always just out of sight behind his shoulder. He was never able to turn quite quickly enough to see her, but her voice was always familiar and warm and comforting to him.



"When he looked again he noticed a slit of light between the goldenrod stems"

There were some children, too—three of them, by the best count he could manage. They shifted around so, and got all mixed up in the shadows on the water. George felt a little lonely sometimes, but when it got too bad to stand any longer, his friend, Simon Hendee, would hand him a bottle. Then he could come down here to the creek, where he wouldn't bother anybody, and have kind of a good time. He leaned back comfortably against the willow stems, and slept. The beauty of good rum was this: after awhile nobody could rightly tell when he was asleep or when he was awake.

The shadows on the water were slanting to the east when George roused and found his flask. A deep draught of the honey-colored liquor persuaded him that maybe he was awake after all, and he lay quietly enjoying the fiery sensation in his throat. Upstream there was a ripple on the water, and the ripple, George saw, was an Indian, painted like a fiend from Hell, with a musket in his hand and a knife and hatchet stuck in a filthy girdle around his lean belly. Behind the first one another ripple formed soundlessly. This savage had a bow, and a quiver of arrows was slung behind his right shoulder. There were more of them, fifteen or twenty, according to the drunkard's hazy calculations, and none saw him lying in degradation under the willows with his flask because of their savage interest in the unsuspecting folk in the clearing.

When they had gone, George sat up and took dim counsel with himself.

"I wish't Simon was here," he announced plaintively. "Simon knows about Injuns." George raised the flask, and the soft voice behind his shoulder said quickly and urgently: "George, you mustn't! You mustn't! Those poor, helpless folk! You have to warn them!"

"Yes, ma'am, so I should do, an' so I shall do," George replied obediently.

His instinct was to keep from getting hurt. All he had to do was to stay quiet or slip away downstream; the Injuns would never find him. But the gentle urgency of the beloved voice insisted. He rose unsteadily, looked at the flask, and tossed it away. Emerging from the willows he raised an outcry, "Injuns!" and attempted to run. The copper-skinned had him down with his nose in the grass before he'd gone twenty paces, but not before Prescott and the others had heard his warning shout.

A minute before McKinnon raised his shout, Simon Hendee had been watching the Pitkin child. He wondered what in Tunket she was thinking about. She drew a mark with her toe, looked at it a moment, and rubbed it out to draw one a bit different. She studied that one, too, while her hair shone in the sun like fluid copper, darker than the fronded blossoms of the goldenrod behind her. When he looked again he noticed a slit of light between the goldenrod stems. It hadn't been there before, and he pulled the hammer of the Gove rifle to full cock. At the same instant when McKinnon's desperate cry came to him, a man with outstretched arm rose from the cover of the goldenrod. Simon shot him squarely between the eyes, the heavy ball passing a scant six inches above the head of the child.

"Run for home, Molly! Quick as you c'n make it!" he told her. "Don't be skeered now!"

All across the slope folks were running toward the big gate. A few of the men had guns, while others, Simon "A man with outstretched arm rose from the cover of the goldenrod" noted with disgust, had only

the hoes they had been using. Nevertheless, all of them fell back to form a grim line between the women and children and the leaping, screeching savages streaming up from the willows. Simon trotted to join them. As he went he poured a charge of powder down his rifle barrel, and dropped a naked ball on top of it. There was no time to fix a patch, but at short range it would make little difference. He primed the pan and slapped the breech to settle it, but there was no immediate need; the Indians having failed of their surprise attack, kept prudent distance from the grimly trotting men. Simon was the last to enter the gate, and before doing so he turned for a long chance at the nearest enemy. It was all of sixty rods, and the ball had no patch on it, but he held high, and the crack of the rifle was answered by the solid thud of the ball against flesh. The victim's shrill war-whoop ended abruptly as he collapsed face downward.

"Purty damned neat, if I do say so," remarked the rifleman. "Right plumb through the wishbone!"

The attackers vanished into the woods, and during the afternoon there was no sign of them to be seen or heard. The landscape drowned in the heat, and only the swelling bodies of the dead warriors lying in the sun gave indication of the menace that lurked within the forest. Within the palisade the men and older boys came to Simon for counsel. The place, thanks to his foresight, was in condition to withstand the beleaguering. The water casks were full; there was plenty of food, powder, and lead.

"It's my idea the devils won't try to close in on us," he told them. "That ain't their way o' doin' things. They'll try to think up some sort of Hell's shenanigan, howsomer, to git at us, or some of us. Prob'ly havin' a revival meeting to consider ways an' means right now. They'll cook up somethin' to git us to come out, I surmise."

He paused, and his face grew grim.

"They've got poor George alive, an' that may sort o' stimulate their imagination. Remember, all on ye, whatever ye may see or hear, don't ye durst open the gate 'less'n I tell ye to."

Toward nightfall the men at the southern wall reported some activity near the creek. A knot of warriors were busy about something on the top of a low knoll in full view of the palisade, but well out of range of even the Ranger's formidable rifle. Now and then a warrior brandished his weapons and hooted derisively at the watches at the wall.

Of all the defenders, Simon was the only one who guessed the nature of the activity on the knoll; but the others understood it, too, when the Indians drew aside to disclose a thick stake set into the earth.



"The hellions!" exclaimed Simon. "That's what I feared; they've got old George, an' they mean to pester him right in front of our eyes, hopin' we'll try to save him."

"I'll go 'long with anybody else who'd like to try it," said Prescott quietly.

"An' then they'd have you an' the other feller, too. An' if more of us went there wouldn't be enough left to keep the damned critters out o' here. Mebbe I c'n think up somethin' 'twixt now an' dark, but if I can't it's bound to go hard with George McKinnon, an' with us, too. He's where he is because he chose to warn us. I hope there ain't anybody'll ever fergit that. An' I hope after they git started, he'll manage to keep from hollerin'. It's bad for women an' kids to have to listen to sech things."

The Reverend Byroade was white and sick. His lips moved in prayer, but his hands gripped the unfamiliar blunderbuss and his eyes were as stern and steady as Simon's own.

After a time the Indians brought their captive from where he lay in the willows. Sober now, the man walked steadily to his frightful ordeal, after one long glance toward the palisaded settlement. Then he was lashed to the stake, while his tormentors hooted and gibed and made obscene gestures toward the watchers.

"They ain't hurtin' him none yet," said Simon. "When they git to that part of it they'll shet their damned mouths so'st we can hear George."

The Indians next proceeded to build a fire a little distance from their victim.

"An' that's so we c'n see all the sights," explained Simon in a voice that was cold as ice. "Seen 'em do it once. An' a leetle fire for other deviltry."

At dark he left the wall and beckoned to Prescott and the clergyman to join him. Simon led the two to a cabin;

the Sunday sermon lay on the bench where the preacher had dropped it.

The Ranger proceeded to draw the charge from his rifle, and while he worked he spoke.

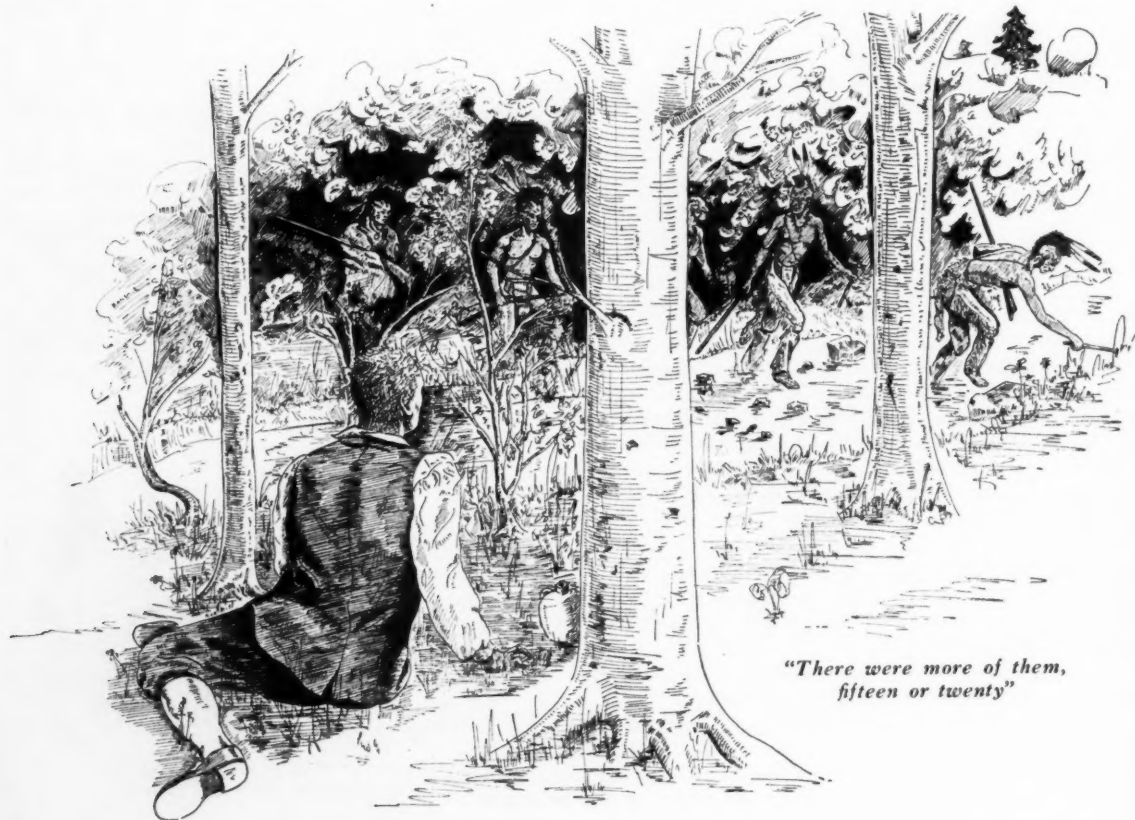
"Now, then, I've got an idee, an' I've made up my mind to try to help George somehow, when it gits dark enough. No, both of ye are goin' to stay right where ye be. One man c'n do as much or more than any number short of a dozen, an' we ain't only fourteen all told."

He had the charge out of the barrel now, and was swabbing the bore carefully with a twist of flax. A charge of fresh powder went down, and Prescott noted that Hendee was very particular in trimming the patch for the ball he then rammed home. Then he examined the flint clamped between leather slips in the jaws of the hammer, primed the pan, and laid the loaded weapon on the bench.

"There's just a chance, an' I sorter feel obligated to try it. I'm best able to, for I've been sorter specializing on them hellions for some time, an' I know their ways better'n most. I shall let myself down over the west wall, an' you, William, will hand me my rifle soon's I'm on the ground. They'll be watchin', but I surmise I c'n fox 'em. There's sartin to be ten or a dozen o' the damned spotted adders in the corn, for that's the way they'd come if they was us, but bein's they ain't us, an' I ain't them, I'll take my chances in among your beans, William."

He stripped off powder horn and shot pouch, and placed them carefully on the bench. The hatchet he put with the rest, and then pulled off the long-skirted hunting shirt. The knife with its nine-inch double-edged blade was thrust into his belt, and then Simon picked up the rifle.

"After I've gone, William, you start countin'. When you git to a hundred, if ye haven't heard any shootin', tell the



"There were more of them,
fifteen or twenty"

rest of 'em. Have four, five of 'em stand by the gate to open it when I holler 'I'm a-comin'!' Don't open it for nothin' else, no matter what. An' if I don't make it, don't come out a-huntin' for me." A tight grin was on his lips. "I won't be worth the findin'. Jest set tight an' keep watch. If they can't get ye to come out by tomorrow morning they'll give it up an' leave ye alone, prob'ly. Injuns git discouraged almighty easy. Are ye ready, William?"

As they crossed in the darkness to the wall, someone on the southern side toward the Indian's fire groaned and swore, deep and solemnly, and another voice said: "They're startin' it!"

Quietly as a cat, Simon climbed to the narrow firing platform. Prescott followed, and took the long rifle. The next moment the Ranger was gone, and his companion cautiously lowering the rifle by the muzzle, felt it grasped from below. He saw Simon as a shadow among shadows for an instant, and even in his anxiety felt an envious admiration for anyone so sure of himself as Simon seemed to be. Then he began counting, and when he had reached his hundred he went to carry out his instructions.

Simon's progress was soundless. Long and arduous training had given him a mastery over his lean body such as few civilized men have ever known. It was so that when he really put his mind to it he could move like a stalking panther. His eyes and ears and even his nose were ready to pick up any indication of an enemy close by. He could smell an Indian yards away when the air was right, as it was now. His greatest disadvantage was that he had to move, while those who watched for him could lie still. He might, for all his precautions, step right plumb on top of one of the damned snakes, and spoil George McKinnon's chances for keeps. The Indians at the fire were quiet, but it was a sinister silence. It informed Simon that the settlement's drunkard was entering upon his agony. Thank God, he wasn't hollering, yet. Simon didn't look toward that fire-lighted spot; he just kept on slipping along between the rows of beans, and feeling very thankful that the soil was soft and free from gravel.

He went slowly, it seemed to him, and realized that his progress would seem even slower to McKinnon if he but knew of it.

At last he stopped, and lay listening. He must be close to the place he had previously selected from the wall. He had marked it by a half-burned stump. The crackle

of the fire came to his ears, and an occasional low, guttural comment from the savages. They'd be squatting on either side of the stake, he figured, so they could watch old George and let the white men see him, too.

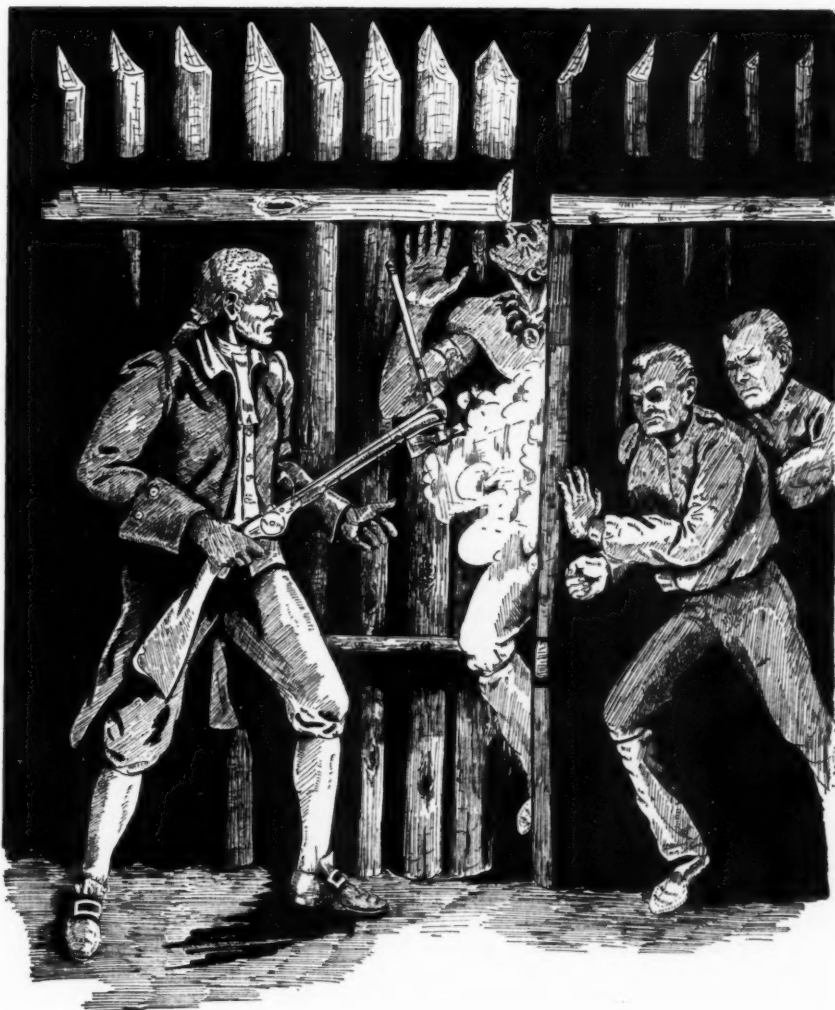
Ten feet and five minutes farther, and Simon touched his stump and rose slowly to his elbows to look.

The scene was as he had pictured it: a small fire for heating ramrods, hatchet blades, and for melting lead, and the bigger blaze for illumination.

George McKinnon, sober, stark naked, sweating and utterly silent, was the central figure. Simon had a fleeting impression of having seen, somewhere or other, a picture something like it; a hill and a stake and a man, with a cruel-eyed crowd standing about. The devils had been working on him. As Simon watched, and corrected his previous estimate of the distance, a smallish Indian, painted with three white stripes across a dead black face, rose from the small fire with something in his hand that Simon took to be a bullet mold, and moved toward George.

The long Gove rifle slid forward, braced against the side of the stump, and the hammer came soundlessly to full cock. Simon tried the sights against the light, and found them sharp and clear. "Good" (Continued on page 34)

"The scene was lit by a levin flash as three ounces of lead swept bloody sway"



The Old Coach's Corner

SO YOU'RE GOING TO YOUR FIRST SMALL BORE COMPETITION!

THE MAIN OBJECT IN GOING to a competition is to have a good time and good sport. You are going to have these because everyone does. You will meet a lot of fine fellows, all of whom play the game fairly. You will also find intense rivalry, but the queerest kind you ever experienced. The old timers will do their level best to help a tyro like you. If a champion can do anything to assist a beginner in winning a match he counts it as a larger coup than if he won it himself. You need never fear a wrong steer from a rival for there are no such men in the small bore game.

I suppose the reason for all this is that the rifle is our national weapon. With it we won our liberty and with it we will retain that liberty. While most of us now use the rifle mainly in sport, and sort of "soft pedal" on its more serious use, behind every red-blooded American's thoughts is the idea that some day he may lie beside his comrades to repel an enemy at our gates, and he wants to have his comrades just as good shots as he is. Anyhow, there is no finer sport, and I am glad you are going to your first competition.

We are all very much alike. When we go to a meeting, or a match, or any other gathering for the first time we are more or less nervous, and particularly we hesitate to ask what we think may be foolish questions. So I propose here to answer some of these questions that you may hesitate to ask.

Notices of all of the larger tournaments are published in this magazine in advance. If you contemplate taking part in one of these tournaments be sure to send to the official mentioned in the notice for a copy of the official program. This will give you all needed information such as dates, location and how to reach the range, the accommodations for visiting shooters (whether in camp or neighboring hotels), and the conditions, times, and entrance fees for each of the matches that are to be shot. You should bring to the matches your small bore rifle with sights, spotting scope and stand, cleaning kit, shooting and other clothes, toilet articles, etc. Usually the best grades of target ammunition are sold on the grounds, but you will find it a distinct advantage to determine in advance what make and lot of ammunition your rifle shoots best with and bring an ample supply with you.

Immediately on your arrival at the range you should register. You are then given a competitor number and are assigned to a tent with cot, blankets, and pillow if these are available. In all statistical records thereafter you will be known by this competitor number, except that in the final posting of the records of each match on the bulletin board your name will appear.

At Registered Tournaments competitors are divided into several groups on the basis of their previous scores, and each group competes among itself for prizes, so that the experts do not by any means win all the prizes and the tyro has a chance to win prizes in his class. The older, experienced shooter has his classification published in the Annual N.R.A. Classification Summary, and may compete in the class shown there until reclassified. You, however, are going to your first match, and therefore when you go to the statistical office at the matches to register you must be prepared to furnish information on your previous

scores so that you may be properly grouped and will not have to compete against "old timers."

If you have fired any of the N.R.A. Qualification Courses, make a record of the scores you made and take this to the tournament. If you have not fired for qualification have your club secretary give you a signed statement of your average practice scores over 50 yards, 50 meters, and 100 yards. If your first tournament is a "registered" one as I suppose it will be, you will be handed a form and register card for your use in giving this information, which you should fill out. Be sure to bring this information on previous scores to your first tournament as otherwise you will be classed with shooters who are in the upper ranks nationally.

When you have registered you should also, while you are at the statistical office, enter all the matches you wish to shoot in. It will be a great help to all concerned if you will attend to this detail at once. All small bore tournaments are on a self-sustaining, pay as you go, basis. There will be a small entrance fee for each match which helps to defray expenses, provide prizes, etc. There are no paid officials at these matches, except only the boys who mark the targets. The cost of attending a shoot, entering all the matches, and your meals, is not high—not nearly so high as staying the same time at a summer resort would be.

Almost all matches in these days are what are called "Squadded Matches," in which you are assigned a definite time to shoot, and a definite target to shoot on by the statistical office. Failure to report at the time and target assigned forfeits the right to shoot. You make your entry for the match at the statistical office. Then watch the bulletin board for notice as to when the squadding tickets for that match will be ready, then apply for this ticket at the statistical office. This squadding ticket will tell you what time you fire, on what relay, and on what target.

It is a good idea, whenever you can do so, to get to the firing point 15 minutes or so before the time you are scheduled to shoot. Sit down in rear of the firing point, set your sights at the exact elevation and zero required for the distance. Look at the wind, and if necessary set your wind-gauge for the amount of deflection you think will be necessary. Then check these settings. Get your spotting scope out of your kit, strap it on its stand, and focus it on the target. Get out your cartridge block and fill it with the right number of cartridges required for the match plus the number you will use for warmers and sighters. Make your entries in your score book, and particularly note plainly thereon the number of your target.

When your relay is called to the firing point go up at once. The firing points are designated by numbered stakes, and your target will also have the same number above or below it. Take your position immediately to the right of your numbered stake, except if you are a left hand shooter your position should be to the left of the stake. No portion of your body must rest upon or touch the ground in advance of the line of stakes marking the firing point.

At once set your forked rifle rest in the ground and lay your rifle in it. Select a point where you will place your left elbow when shooting, not on a clump of grass but rather between clumps where it will not roll off. (Digging holes

for elbows is prohibited.) Set up your spotting scope with reference to this spot so it will be in convenient position to your eye when you are shooting. Take up your rifle, put the sling on your arm, lie down with your left elbow in its selected position, and then move your cartridge block, forked rifle rest, and scope with stand into convenient locations, and train and focus your scope on your target, and be absolutely certain that the scope points on the right target. Recheck your sight adjustment, recheck your wind allowance, and verify your position, and be sure you are faced just right to fire on your own target. Then await the range officer's command to "Load." Until this command is given the bolt or breech of your rifle must be open, as indeed it must be at all times and places on the range, except only when you are actually firing.

In outdoor tournaments, ranges are divided into two classes as regards distance. Mid Range is 50 yards, 50 meters, and 100 yards. Long Range is 200 yards. The range procedure is slightly different for Mid and Long Range.

At Mid Range the paper targets which are set up in the frame carrying your target number have written on them both your target number and relay, and after you have fired, these targets are taken back to the statistical office and constitute your score card for the match. The statistical office records your score from the bullet holes in these targets. As you fire your score these targets are not marked. You must rely on your spotting scope to tell you where each consecutive shot strikes the target.

The range officer will give the commands: "Load," then "Ready on the Firing Line," and then "Commence Firing." No shot is fired until the last command has been given. From the command "Commence Firing" five minutes are allowed for warming and sighting shots, plus the time allowed for the record or match shots proper, which at Mid Ranges is 45 seconds for each shot. For example, in a 20-shot match you have five minutes for warming and sighting shots and 15 minutes for record shots, a total of 20 minutes for all your firing. You may take as many or few warming and sighting shots as you wish. Thus you may, if you wish, insert a full magazine containing 5 cartridges in your rifle at the command "Load," and at the command "Commence Firing" you may fire these rapidly, aiming them into the back-stop, to warm up and foul your bore, and then fire two or three carefully pulled sighting shots on your sighting target to be sure your sights are adjusted just right to throw your center of impact into the center of the 10-ring, all before you start in to fire the scoring shots on your record target. Your record targets may consist of more than one bullseye, and the range officer will tell you how many of your record shots must be fired on each bull. Again be sure that you fire only on your own target—look at the number above it for every shot. The most frequent mistake of the beginner is firing on someone else's target, which makes an unpleasant time for all concerned. You must of course complete all your record shots within the time limit. For any shot fired after the command "Cease Firing" ten points are deducted from your score.

When you start to fire, try to forget all about its being a match, and all about the competitors on either side of you. You have a most interesting little ballistic problem—to get all your shots into the 10-ring with as many as possible in the X-ring. Put all your thought into solving this problem and forget that it is a match, and the less liable you will be

to get a case of "buck ague" and the higher will be your score. It would help you a whole lot if all your practice at home had been within the standard time limit.

As soon as you have finished your score open the bolt of your rifle, get up, and clear the firing point for the next relay. Now you have nothing more to do relative to this match except to watch the bulletin board for the preliminary posting of the scores of the match, which will usually be several hours after the match has been completed. You should know the score you made from watching the bullet holes in your target as you shot, except that there may be one or two doubtful shots that you cannot be certain of through your scope. If you think your score, as given in the preliminary posting, is not correct, make your challenge to the statistical office at once as no challenge can be considered after the final official posting of scores on the bulletin board.

The procedure at Long Range (200 yards) is much the same except as follows: Your target is marked by a detail in the pit. After each shot the target is pulled down, a small spotter is placed in your bullet hole, the target is run up again and is then disked to show the value of your hit. Your target is scored by a scorer who sits at a blackboard in rear of your firing point, and who also has your score-card. If you make a "ten" on your first shot the scorer should announce in a voice loud enough for you to hear: "Competitor Number —, first shot for record a ten." And he also marks the "10" on both your blackboard and on your score-card. Listen to your scorer, and if he does not call the value of your shot correctly, mention it to him or call a range officer.

Your time limit at Long Range is 1 minute per record shot, plus 1 minute for each sighting shot allowed by the conditions of the match. No other warming or sighting shots are permitted. Thus if the conditions of the match as published in the official program call for 5 sighting shots and 20 shots for record your total time limit is 25 minutes. You have but one target and you start by firing your five sighting shots on it (no more and no less) and then follow with your 20 record shots, all within the time limit. Only the record shots are scored.

At Long Range you will also probably be asked by a range officer to score at a certain firing point (but not immediately before your own relay). You do this of course willingly to help out, there usually not being any regular scorers. Make yourself familiar with the method of scoring or disked the targets, which sometimes differs on different ranges.

When the matches for any day are concluded you have nothing more to do but get a good supper, clean and put away your rifle and equipment, and talk over your scores and alibis. But don't forget to watch the bulletin board to see that your scores are correctly recorded, how you came out in each match, who the winners were, and perhaps the time for holding a match that may have been delayed by rain. And don't hesitate to ask an old timer any question you wish. He will be delighted to set you straight. They all play the game as good sports, and you should also.

All of the official rules for small bore rifle competitions are contained in a little booklet entitled "Small Bore Rifle Rules—1940" which you can obtain from the N.R.A. for 10 cents. Be sure to get a copy and study it before the tournament.

I hope you pull them all in the X-ring, but anyhow I know you will have a fine time.



F. J. Kewer, Jr.

NORTH-CENTRAL PISTOL REGIONALS

By FRITZ E. HOWELL, A. P. Correspondent

Pictures by Garrett H. Cope, Jackson, Mich.

THE "TRIGGER TWINS" OF DETROIT—Harry Reeves and Al Hemming—lopped off practically all the laurels at the North Central Regional Shoot, at Jackson, Mich., June 1 and 2. Out of 18 matches, including the All-around and Regional aggregates, the Detroit stars divided 15 first places.

Hemming, No. 1 ranking pistol shot of the nation in 1939, won the regional title—and the free trip to Camp Perry—with an eight-match aggregate of 1716, 27 ahead of second-place Marvin Driver, coach of the Detroit team. Reeves, winner of the regional aggregate a year ago at Rockford, Ill., was ineligible to compete again for the Camp Perry trip, but he won the All-around aggregate with 2573 for 12 events, eight points up on Hemming.

F. J. Kewer, Jr., of the Immigration Service, stationed at Detroit, won the Class B Regional crown and trip to Perry, with 1607.

Four new national records were set, and three tied. Hemming achieved one of his most coveted goals as he turned in a score of 288 with the .45 over the National Match Course to erase from the record books the 287 set a year ago by Mark Wheeler of Los Angeles.

That feat made the Detroit blond the first man in history to hold the national record over the National Match Course for the 22, 38 and 45-caliber competitions. In 1938 he set the 22-caliber record of 297, and the 38-caliber record of 298, and those marks are still "tops." Hemming also crashed the national record heights in the 50-yard, center-fire slow-fire event with 193, breaking by two points the 191 mark registered last year at Perry by Emmett Jones.

The four-man Detroit police team of Reeves, Driver, Hemming and Jim McFern, turned in a 1119 count, 45-caliber, to add 30 points to the national record they set a year ago over the National Match Course at Rockford, Ill., while the Great Lakes Pistol Club of Detroit set a new civilian four-man mark over the same course, 22-caliber, with a monstrous 1160, 87 points above the recognized record.

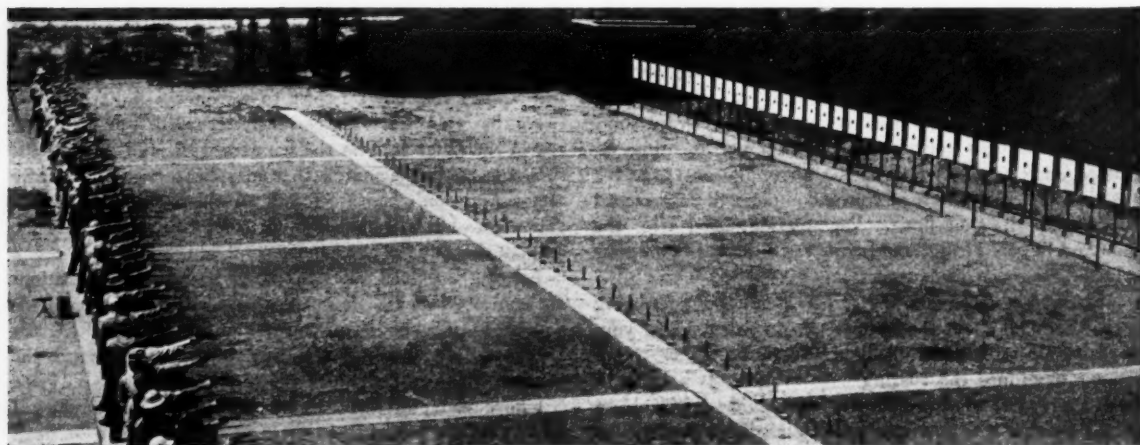
Reeves tied three national records with 191 in the 38-caliber Slow Fire at 50 yards; 197 Timed Fire with the .45 at 25 yards, and 193 Rapid Fire with the 45 at 25 yards. He won eight matches, was second five times, third once and sixth once, while Hemming had seven firsts, four seconds, one third, three fourths and a ninth place.

Michigan State Highway troopers finished first in three matches. Carlos Hurley took the .38 Rapid Fire with 193, six points ahead of Detroit's Marvin Driver, while Trooper Stanley Carlson triumphed in the .38 Timed Fire event with 197, beating Reeves by one point, and also in the 38-caliber National Match Course event with 286, two points up on Reeves.

Roberta Edwards, petite 15-year-old Detroit, won the women's event with a 170, .22 Slow Fire, 50 yards.

Heavy clouds and a light sprinkle discouraged attendance on the opening day but conditions later became ideal and over 100 competitors were on the line for the National Match Courses and the team events on Sunday. With 60 targets functioning perfectly, and a superbly efficient operations staff, every scheduled event ran so smoothly that ample time was available for two non-programmed matches, and still all competitors were able to leave, with their medals, by 4:30 Sunday afternoon. Full credit is due to the fine support of Police Chief Harris and his officers.

The Jackson range was a busy place during the match



SINGLE-SHOT RIFLES

By J. V. K. WAGAR

(Continued from June issue)

Stevens Model 44½ Exceptions

AFTER THE STEVENS MODEL 44½ installment of this series appeared, a very fine letter was received from Mr. Austin M. Roberts, of Richmond, Va., calling attention to exceptions occurring on some of the last rifles made, and not mentioned in my article.

The first concerns the employment of a transverse screw between the finger-lever pin and barrel breech of Model 44½ rifles made in .22 caliber rim fire, or fitted with interchangeable .22-caliber barrel and action parts. This extra screw serves as a base for the ejector plunger fitted on these rifles, and necessitates the use of other features mentioned for the proper identification of Model 44½ actions.

The second exception concerns the employment of a firing-pin retractor in central fire Model 44½ actions during the last few years of manufacture. Engaging a slot in the firing pin and pivoted on a cross-screw or pin below the firing pin retaining screw, the retractor is a pawl actuated by a projection on the breech-block-finger-lever link, and eliminates the firing-pin troubles mentioned in my article.

These observations are of especial value, for none of Stevens catalogs Nos. 52, 52 Revised, 53, or 54, in editions I own, show these points; and the Model 44½ actions I own and the many I have seen in this part of the West lack these latest features. Mr. Roberts' observations will have corrected and completed the article in question for many riflemen owning the last Stevens 44½'s made.

The Remington-Rider Rolling-Block Rifle

Fragments from the history of this action outline a record remarkable among single-shot rifles. Sawyer states that the rifle was first patented in 1861 by Joseph Rider. Others state that Joseph (called John in some cases) Rider improved a prior patent held by Leonard Geiger. Many actions I have owned carry dates from May 3, 1864, on. Bannerman pictures this action as one of the conversions for .58-caliber Civil War rifles.

The Remington-Rider action was made in rifle and carbine form for the U. S. Army and Navy and for the N. Y. State Militia, and is said to have been produced by Springfield Armory as well as by Remington. Buffalo and other western hunters liked it.

As a military arm it was used by Denmark, Egypt, France, Spain, and other countries. My 1904-1905 Remington catalog shows it made in both rifle and carbine military forms, and states that over 1,600,000 had then been produced. Firing the .43 Reformado cartridge, this rifle was used by Spain against U. S. troops in Cuba. During the World War, France bought rifles on this action chambered for the large and powerful 8-mm. Lebel cartridge.

The Remington New Model No. 4 rifle with this action was marketed for small rim fire cartridges until the early 1930's, and throughout the world are many excellent rifles on this action, and many fine actions far from worn out on barrels no longer serviceable.

This rolling-block action was made in quite large sizes for the .30-40, .303 British, .30-30, 7-mm. Mauser, 8-mm.

Lebel, and various .45 and .50-caliber black powder cartridges; in medium sizes for the .38-40 and .44-40 and similar cartridges; in small sizes for the .22, .25, and .32 rim fire cartridges; and in pistol form for both rim and central fire cartridges.

The great simplicity of the rolling-block action and the truly intriguing fashion in which the opening breech block rotates under the full-cocked hammer which, in turn, rotates under and supports the closed breech block, has popularized this arm. Few fail to understand the functioning of the action, and there is little chance to balk it by improper manipulation. Old Remington catalogs stated: "These arms have been produced to meet the urgent demand for high-power rifles and carbines of the simple Remington system, with which the armies of South and Central America are so perfectly familiar, and to whom the complicated magazine arms have been a constant source of trouble and danger."

The parts are few, simple, durable, and with the exception of the thin combination trigger, block, and extractor spring on Model 4 actions, seldom break. Indeed, the greatest objection I hear about this action, concerns the hammer remaining at full cock after the action is operated, unless lowered by hand.

Since the action is opened by cocking the hammer and then rotating the breech-block finger spur back and downward, there are no under action parts to move, and the shooter can use the rifle without difficulty in low prone positions. The trigger guard is a solid affair—an integral part of the action in light models lacking a lower buttstock tang, and a part of the floor plate held into the heavier actions by two cross screws. Thus there are no loose parts about the guard to annoy one when carefully squeezing the trigger.

The breech-block face opens far enough to permit ready cleaning, although, strangely enough, of all my rifles the breech block most pitted is on a .38 rim fire No. 2 Remington once owned by a Central City, Colorado, gold miner who apparently never cleaned the breech-block face where primer fouling had seeped back upon it. The firing pin cannot catch upon indented primers, for the breech block rotates back and downward instead of sliding across the cartridge head as in falling-block actions.

Hand-operated, the seating and extracting power of the rolling-block action is inferior to that of other rifles so far covered in this series, but as P. H. Manly stated in his "Single-Shot Rifles," in the April, 1938, *RIFLEMAN*, a boot-heel applied to the breech-block spur of these rifles accomplishes wonders; and the action can stand such treatment, although the finish may suffer. Actually, however, I have found the seating power of these actions insufficient only with often-fired bottlenecked cases, and the extractive power deficient only in arms which came to me in much abused condition.

If the breech block is closed upon a very tight case, the hammer speed is reduced by the increased friction as it rotates under the breech block it supports. One achieves, in this action, extremely tight breeching only with a tendency to lose lock speed, and since the hammer is necessarily heavy



to properly support the rear of the breech block, the inherent advantages of very light hammers are unattainable.

Ness, as stated in his article about a rifle for the .357 S. & W. Magnum cartridge, in the March, 1939, *RIFLEMAN*, chose one of these actions to duplicate the loose breeching typifying revolvers.

With straight, new, or frequently sized cases the rolling-block action is easily operated, and its satisfactory performance with the rimless 7-mm. Mauser cartridge shows that it can be accurately headspaced.

Extractors used on the heavier actions have been sturdy wide disks revolving in circular cuts concentric, or nearly so, with and about the breech-block pins. Older models simply extracted, but more recent productions have been fitted with springs rocking over cams on the extractors in a manner quickly ejecting fired cases. Lighter models have been equipped with sliding or rocking extractors and ejectors in most instances heavy enough for the work to be done, although I have bent extractor pins on Model 4's when extracting .32 Extra Long cases from rough chambers.

Most of the last heavy and medium weight actions were provided with firing-pin retractors, but few of the lighter ones were so equipped. The only need for firing-pin retraction on rolling-block actions is with the larger central fire actions in which the firing pins incline upward at greater angles than rim fire pins striking the lower edge of the cartridge cases. Then when heavy breech blocks are snapped shut upon fresh cartridges, with steeply inclined firing pins possibly slowed by gummed oil, dirt, or rust, an occasional cartridge will be fired, and without the hammer in position for support.

Many light actions had breech blocks and hammers pivoted on screws threaded into actions from the left side. The blocks and hammers were intended to rotate upon the smooth shanks of such screws, but the screws in many actions loosened until they turned a bit each time the actions were functioned, wearing the seats of the screws and requiring frequent tightening.

Older light actions and the medium and heavy actions rotated hammers and breech blocks on hardened steel pins of good diameter, held into each action by a screw-secured button. Here one again finds pins rotating in actions unless the buttons are sprung to press firmly upon the pin ends, or unless bits of rubber are inserted under button ends to create more friction. I have found, too, that light polishing of pin surfaces rotated upon by blocks and hammers, followed by a period of generous lubrication with Gunslick or other good grease, will often keep the pins as stationary axes.

Most Remington rolling-block rifles and old style pistols have the triggers engaging the hammers directly, but in No. 2 and No. 7 rifles and late model pistols, the triggers are set well ahead of the hammers and actuate the latter by means of connecting bars acting also as sears.

For the various calibers the receiver rings and barrel breeches have always been large. My big military action accepts a barrel 1.05" in diameter on the threaded shank. But desirable as this characteristic is, it is made necessary and is offset by the fact that the lower rear portion of the receiver rings and barrels of these rifles is cut away to accommodate the breech blocks rotating above the breech-block pins.

Top to bottom: Remington No. 2 rifle; Take-down and solid frame Model 4 Remington-Rider actions; Military Remington-Rider; Remington-Rider 7-mm. action parts. Lower pin is from Whitney

These actions quite capably dispose of escaping gas. Each firing pin is well covered by the hammer, and the breech block butts squarely against the barrel breech, allowing gas from a burst case to escape directly to either side. But large men with stock crawling habits should be careful how they shoot the smaller models in the prone position. A year ago I nearly lost my right eye when a .32 Long rim fire case head blew off as I shot one of these rifles in the prone position, and I still visit the doctor to have occasional bits of metal cut from my eye.

In all of the many Remington rolling-block actions I have owned, the stocks were adequately mortised into the actions, and whether held by two tangs in the No. 2 and heavier rifles or by the upper tangs of lighter models, always remained secure.

The Whitney Rolling-block Rifle

This action so resembles the Remington-Rider that it should be briefly compared. The principles involved are basically the same. The Whitney breech block rotates on a sturdy cross-pin and is supported in part by it and in part by what appears to be a forward projection of the hammer. Actually, however, the hammer is a separate affair rotating on the rear pin, but within a roller supporting the rear of the breech block. Thus the hammer is lighter than in the Remington-Rider actions of equal size, and as it strikes does not slide under the breech block. This seems an improvement, but the locking roller is turned under the breech block by an extra spring, and if one has a tight case, the hammer must push the roller into place before striking the firing pin.

The Whitney breech-block operating spur is integral with a side plate pivoting beside the breech block. To open the action one pulls the hammer back, then pulls back the breech-block spur, which first cams the locking roller back, retracts the firing pin, and then opens the breech block in the final movement.

The Whitney requires an additional flat spring to operate the locking roller, and while smooth and reliable in operation contains several more parts than the Remington-Rider. The only improvement in the Whitney is a minor one: the breech block and hammer and locking-roller pins have offsets which are caught under a screw on the left side of the action, holding the pins securely in place and preventing their turning. —Or would it be better to have pins capable of being periodically turned, since most of the wear will occur on the upper surface? The Whitneys I have owned and seen have suffered from loose stocks applied without mortised extensions.

Many Whitney tangs read as does mine:

WHITNEYVILLE ARMORY, CT. PATENTED.
Oct. 17, '65, RE-IS'D JUNE 25, '72, DEC. 26, '65
RE-IS'D. OCT. 1, '67, MAY 15, '66, JULY 16, '72.

The Remington-Hepburn

Patented October 7, 1879, by Lewis Hepburn, this is quite an old action, but was moderately popular until it was discontinued in 1907. Tradition was against it, as against the Remington-Rider action, for the typical Hepburn has a side lever instead of the under lever found on Sharps, Ballard, Maynard, Peabody, Winchester, and most other early American single-shot arms. However, many riflemen liked it for the solid trigger guard integral with the floor (Continued on page 34)

Top to bottom: Left-hand side of Whitney rifle; Whitney action parts assembled; Whitney hammer, roller, breech block, extractor, and spur plate; Lever side of Remington-Hepburn, showing separate breech block



FROM TYRO TO MASTER

NO. 8 (THE LAST) OF A SERIES

By CAPT. R. C. ANDREWS, U. S. Infantry

WIND DOPING

WIND DOPING COMES UNDER THE HEAD of weather forecasting. It contains elements of soothsaying, prophecy, and hope. It is no handicap to the shooter to be the seventh son of a seventh son. It isn't scientific. At best it is an estimation, a guess.

The lad in the poem who

*"... launched an arrow in the air,
It fell to earth, I knew not where"*

was a poor wind doper. Could he have doped wind he would have had some idea of where the arrow landed. The little rhyme catches the attention of the shooter only because of the first line. It describes what the shooter does when he turns loose a bullet—he *launches* it into the air.

The word launch brings boats to mind, and water. If you will picture the air mass between you and the target as a body of water containing cross currents, eddies, and swirls you may be better able to imagine the forces by which a bullet is affected after leaving the muzzle. Under favorable conditions of weather we can see ripples in this air—really heat waves which the shooter calls "mirage"—just as we can see currents in water. By watching the movements of the mirage you can see not only the direction from which the wind is blowing but also, after long experience, you can judge or guess the intensity or force of the wind and its effect upon your bullet.

Everyone has seen a batter hit a long, high fly on a windy day and has noticed the fielder run a long way to his right or left to place himself under the ball as the wind swept it across the field. Wind affects the flight of a bullet in the same way but of course to a much lesser degree.

If there is sufficient wind to blow your bullet off the line from muzzle to bull you must point your rifle into the wind sufficiently to launch your bullet at such an angle into the wind that the wind will blow it over into the bullseye. How much to point your rifle into the wind in such a case was figured out by engineers who made a windage scale on your rear sight for your use. Unfortunately they didn't put a label on the handle to remind you which way to move it. That omission affords a splendid opportunity for you to display a little originality, but you'll save points by always *taking windage into the wind*. If you are tempted to do otherwise forbear long enough to imagine that you are playing ball on that same field, and picture the flight of the ball.

This elementary discussion of the effect of wind is old stuff and applicable to any type of weapon. Now, since devotees of the big bore have a few more problems than the smallboresmen, we'll discuss their troubles first.

Their first problem is how much windage to use for that first shot. There are two good ways of getting the answer to that one, provided you can estimate with any degree of accuracy the force and direction of the wind.

Turn to any good scorebook and you'll find tables of windage all worked out for you. Set off the proper amount on your windage scale, remembering to move that scale to the side from which the wind is blowing.

If you have no scorebook—and you have no business attempting any serious shooting without one, you can dope that first shot by the good old army rule: The velocity of the wind times the first figure of the range divided by four will give you the approximate number of *quarter* points of windage to use. For example, at 600 yards you have a 10 m.p.h. wind from 3 o'clock. You will use

$\frac{10 \times 6}{4}$ or $\frac{60}{4}$ or 15 *quarter* points of windage, or $3\frac{3}{4}$

full points of windage.

How much will a quarter point change of windage move the bullet on the target? About 1 inch per 100 yards of range, or about 1 minute of angle, which is the easiest way to remember it. Think of a quarter point of windage as being about equal to one minute of angle at any range.

But there still remain a lot of questions about wind doping. Almost anyone who can shoot at all can get that first shot in there or thereabouts by consulting a scorebook or by applying the rule above. The hot breath of disaster causes the hackles to rise on the beginner's neck every time the wind changes during his score. How is he going to know in advance what is going to happen so that he can anticipate it by applying a correction in time? The answer is, by actually watching the wind to see what it is doing.

That's done by use of a spotting scope. By setting the telescope *off focus* you can see the mirage, provided there is any running. Since the flight of the bullet to the target is affected only by air currents between the muzzle and the target, that is the area in which we need to watch the wind. So we adjust our scope to focus *between us and the target*. Of course it is then off focus with respect to the target, but who cares? We need only sufficient definition of the target to see our spotter.

Right now I'll announce that I'm sidestepping all arguments as to whether the bullet is most affected by wind as it leaves the muzzle or as it slows down in the latter stages of its flight. It is affected somewhere down the line, and that fact, and how to overcome it, is all that interests me. So let's set that scope off focus, and get going.

Now you can see the heat waves, or mirage. They look like fine hairs, if you please, or ripples on water, or—if you will believe the Alaskan Civilians—like ice worms! As the wind blows, these waves bend and sway with it. In a stiff breeze they are held down close to the ground. Sometimes they appear to break off and float away.

To find the direction of the wind by means of a scope, swing the scope about from right to left until the mirage appears to be rising straight up. Then note the direction.

To determine the force of the wind from the appearance of the mirage requires a lot of observation and firing. You'll do well to confirm this judgment by tossing pieces of grass into the air and judging the rate at which they are blown away.

To learn the effect of wind changes as you see them in the scope requires a lot of firing. Get on the line with a hatful of ammunition, hook a couple of shots into the bull, and then use your scope and scorebook. Watch the mirage on each shot, but make no windage corrections. You don't care about the score, yet. And above all, be honest with yourself; try to differentiate between true mirage and "shoulder mirage"—the tension and reflexes set in motion by jerking the trigger.

If you can see, after firing a shot, that the heat waves are bending closer to the ground than they were just before you fired, you know that the wind picked up before you got the shot off and that it has blown you either to the right or left of your last shot. Make no correction, but wait until the appearance of the mirage changes again. Then fire, and try to predict where the shot struck, plotting this prediction in your scorebook before you see your spotter. When you can accurately predict its location on the target according to your observation of the wind conditions and their effect, you are learning to dope wind. This kind of practice-studying how far your bullet will be blown by winds of varying velocity—is the most important kind of training for a wind doper. Too many beginners worry about wind doping when there isn't enough wind to dope.

Now you are ready to try to dope wind for each shot as you shoot scores. In firing scores you predict, *before firing*, what the wind, as you read it in your scope, will do to the shot, and then apply the necessary windage correction to keep the shot centered in the bull under those conditions of wind. And that's *all* there is to wind doping!

The telescope is not the only aid in wind doping. Additional dope on the vagaries of the wind can be obtained by watching the grass between you and the target, bushes in line with nearby targets, range flags, etc. Don't hesitate to confirm your reading of the mirage by corroboration of these other indications. For example, if there is a flag flying close to the range, fix in mind the angle at which it hangs from the staff when the wind is at a certain direction and intensity. It's a sure check on changes of which you may lose track by depending solely upon reading the mirage during a long string, especially if you draw a slow target.

You must learn to shoot fast if you are to gain any benefit from your ability to dope the wind. After your target has appeared, after you have checked the location of your last shot with relation to your "call" and the wind conditions, after you have checked the wind and applied any change which may be necessary, you must get that next shot away in a hurry before the wind changes. Of course that doesn't mean to hurry the shot away carelessly—you can't dope for a shot that was jerked. It means that you must decide to shoot without piddling with the trigger or admiring the sight picture. If you don't get your shot away reasonably soon after applying the dope for it, the wind may change.

Here are a few more *don'ts* while we're at it: *Don't*, unless you are very sure of your hold, change after your first shot unless you are 'way off—shoot another one to confirm that it wasn't you who did the dirty work. *Don't* try to put them all into the V ring; the ammunition won't group that well in a service rifle. *Don't* piddle around taking

"pinches" of windage. How much is a pinch at 600 yards? At 1000? *Can you hold that close? Will the rifle group that close?* Then don't be silly!

You will be advised to make half corrections or whole corrections, that is, if you are out of the bull, to crank on enough windage to move the next shot halfway to the center or all the way to the center. I believe that in the final analysis the amount of correction to make depends upon your confidence in your hold. Personally, I have always preferred to gamble a little with the score, and make a full correction when I'm out of the bull. No one has ever been able to prove to me that a 4 at 3 o'clock doesn't count just as much as a 4 at 9 o'clock!

To get back to wind doping, the smallboresman more often is forced to depend upon auxiliary sources of information of the wind than is the big bore shooter. He has an entirely different problem in trying to dope the wind. There isn't as much mirage between him and the target as there is between the big bore shot and his target, and the less mirage there is, the harder it is to see and to read. The smallboresman can't pull his scope out of focus because he must have clear definition of his target in order to see his shots. So, unless it is very hot, he doesn't see much mirage. Often, at best, he can only occasionally pick up a little mirage by carefully watching along the top of the wooden target frame.

But he has compensations. Since he is closer to the target the same air currents that sweep the targets usually blow over him. He is privileged to raise his head at any time to *feel* the wind on his face. He also has a sighting bull on which to get straightened out before shooting record. And, if he gets into difficulty in the course of his score, there is no rule, to my knowledge, to prevent his going back to his sighting bull for enough shots to see what is making things tick as sourly as they sometimes do. He can also observe the grass between him and the target, the taller weeds, the dust from the strike of his neighbors' bullets, etc.

The less proficient smallboresmen whom I have observed do not make sufficient use of their sighting bull. They are too anxious to get targeted in quickly in order to start record immediately. Why not get well centered on the sighter, and then continue to shoot several more shots just to find out what the wind is doing? Is it steady? Is it fishtailing? How far does the usual gust blow your bullet? Do the gusts last so long that you will have to shoot through them to finish in time, or will you be able to wait them out?

Now here's another idea on wind doping. I'll give away my rights to any inventive gadgeteer who wants to use it. Were I musically minded I would rig up a whistle to hang on my scope tripod. By listening to the wind blowing through it I could tell by the key how much windage to use. If you don't think there is something to this idea, try wearing a ninety-five cent "tropical helmet" while you shoot, and be annoyed by the breeze whistling through the vents!

Scope sight shooting in the mind is much simpler than iron sight shooting. With a scope of sufficient field and magnification you can note wind conditions while you aim, and hold over for the changes. As with iron sights, it is good practice occasionally to hold on center for a number of shots just to observe how far the wind blows the bullet.

Wind doping is an art and not a science. It is probably the most fascinating branch of shooting. But beware of over-confidence in your ability to dope wind.



*A very business-like
bull gun*

A LOVELL GOES WEST

By DAVID H. DAWSON

IN THE APRIL 1939 AMERICAN RIFLEMAN I told how I had my standard Winchester Model 70 Hornet rifle chambered for the Lovell cartridge, of development of a suitable load therefor, and of some of the shooting done with it. So altered, it proved to be the most accurate and satisfactory small bore varmint rifle I had ever used, and it seemed that my long search for such a rifle was over.

Excellent as this rifle was, I was willing to improve it. Few gun cranks are ever entirely satisfied with their shooting irons, and are therefore on the constant lookout for something better. It is well that this is so, for dissatisfaction with existing conditions or equipment has been the source of all progress in every field.

The only thing I did not like about my musket was the light barrel. I have never cared for a light barrel in any caliber. A big, heavy barrel appeals to me strongly, because greater weight gives less, and more uniform, vibration from shot to shot; the barrel heats more slowly and evenly, is less sensitive to bedding in the stock and change of position of the shooter, and may be held steadier. It is not a matter of chance that all of the world's rifle-accuracy records have been made with heavy rifles.

From W. A. Sukalle, gunsmith and barrel-maker of Phoenix, Arizona, I obtained a heavy ordnance steel barrel blank, finely rifled but with rough-turned exterior, measuring 1" at muzzle, 1 1/8" at breech, 25" long. A lead slug pushed through the bore disclosed no tight or loose places. I polished the barrel and took it to Elmer Key, of Chelsea, Okla., who had altered my Hornet, and had him fit it to

the Model 70 action. This he did in a skillful manner, chambering for the original Lovell cartridge, and at my direction he cut the barrel to 22". I then blued it, fitted it to the stock, and wound up with a very business-like bull gun, weight with Winchester A-S scope, twelve pounds.

With Ideal No. 5 powder measure and a Belding & Muhl No. 26 reloading tool, I experimented with various loads and finally settled on one consisting of the Remington No. 6 1/2 primer, 14 1/2 grains of Hercules No. 2400 powder, and the Sisk 55-grain Niedner bullet. Late one perfect, windless afternoon, firing prone at 100 yards, muzzle-and-elbow rest, without sling, I put five shots into 3/8"; then I strained a little too hard for that last shot, flinched, and threw it out for a 1 1/4" cluster. The sun being nearly down, I had only time to fire five shots at 185 long paces, making a 1 1/2" group. Subsequent tests confirmed the unusual accuracy and stability of this load.

Vacation time was coming, and the call of the plains, deserts and mountains of the West was strong in my heart. I planned to put in two weeks of almost constant driving through western and northwestern states where I would have opportunity to thoroughly test my rifle under widely varying ranges and conditions. I had seen practically all of that country before, but it had gotten into my blood and would be there for the rest of my life. And when the long-dreamed-of day arrived, I loaded the Lovell into the car with the other gear, and my wife and I headed for the great Yellowstone Park.

"Way out west in Kansas" a hawk sat on a haystack, intently scanning the prairie before him. I held on the top of his head, squeezed the trigger, and he tumbled to the ground with his head shot off. This was my first shot at any sort of game with the new barrel, and it was a highly satisfactory performance at 137 yards.

Early one morning we left Casper, Wyoming, and a few miles out saw a coyote sitting in the middle of the highway some distance ahead. As I approached he started across the plain toward the foothills. My wife handed me the heavy rifle as I set the brakes; I rested it across the window sill, held him in the scope as he trotted slowly along, and the fast little bullet caught him just back of the left shoulder, killing him like a stroke of lightning. My pacing is accurate; it was 135 yards from the car to the coyote. He was a big brute, the largest of his kind I have ever seen.

Farther on we met a shepherd who held a long bolt-action rifle in the crook of his arm as he kept watch over his flock. He told us that coyotes were such killers of game, sheep and poultry that the state had set a bounty on them. He inspected the dead coyote, which I had roped to the rear bumper of my car, and expressed the fervent hope that I would kill every such critter in Wyoming. We gave him the animal and went on our way.

A few days later, regretfully leaving the indescribable grandeur of the wonderful Yellowstone, we drove south toward Jackson Lake. Near the lake I fired at what I thought was a small eagle in a pine. My shot at 160 yards brought him down, and I discovered that it was an osprey, or fish hawk. In the Park I had seen several of those big birds flying off with fish in their claws, and the rangers said many of them lived in the cliffs near the streams.

Early in the morning, a short distance south of Jackson, Wyoming, we saw another coyote in a field 130 yards from the highway. Again as I stopped the big rifle was thrust into my hands by my eager wife. The coyote stood looking at us, then collapsed as the bullet took him behind the shoulder. Like the first, he never moved a muscle after he was struck and I believe he was dead before his body touched the earth.

Somewhere in Utah, near sundown, a large bird sailed across the highway and perched in a gnarled and twisted

cedar to the west. The scope showed it to be a great horned owl. At the crack of the rifle he dropped, and it was 143 yards to the tree under which he had fallen. He was a splendid specimen which I would have liked to keep, but my bullet had mangled him woefully.

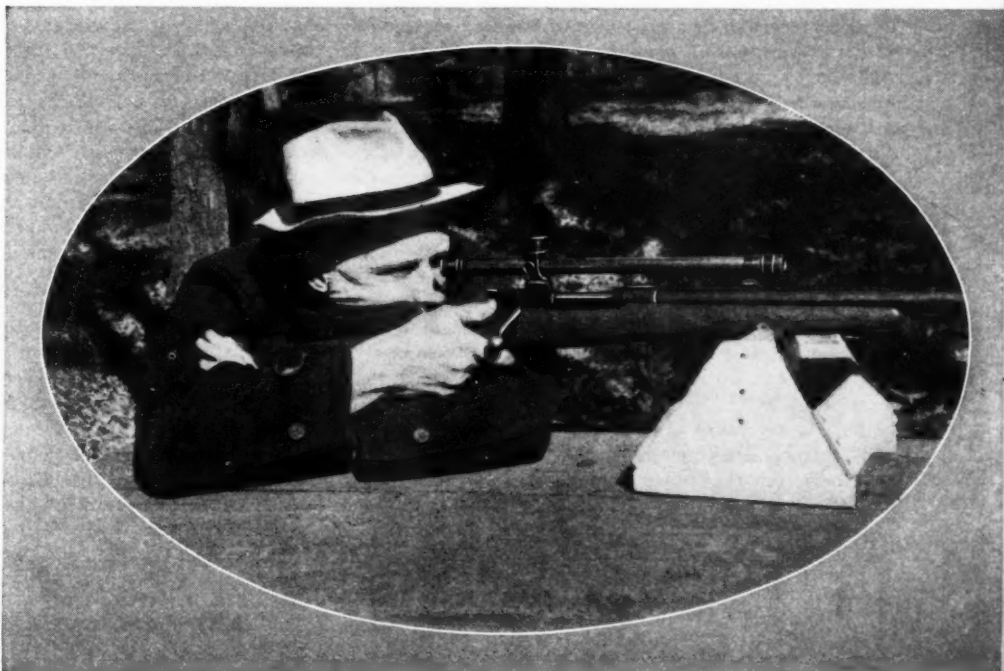
After a short visit to Salt Lake City and the famous lake for which it is named, we turned east toward Denver, Colorado. Several large hawks were shot en route, at ranges from 120 to 205 yards. A colony of prairie dogs bordered the desert road, and I stopped for a little practice. The Lovell took the dogs' heads off with deadly certainty at 150 yards; at longer ranges I held on the head and landed in the chest, scattering pieces of prairie poodle in all directions. This shooting was done from the prone position with rest, under perfect conditions.

Deep in the mountains west of Denver the highway ran through a game preserve, at the entrance of which a large signboard informed all and sundry that no hunting or shooting was allowed therein and that rangers patrolled the premises. Not a mile from this notice I spotted a coyote near the top of a ridge to my left, within easy range. Of course, under the circumstances, I could not shoot him but had to content myself with watching him through the scope. In the sanctity of the preserve, surrounded by some of the most beautiful scenery in the United States, his situation seemed to me most enviable.

Many more miles of beautiful country in Colorado and New Mexico, many successful shots at hawks, crows, prairie dogs and jack rabbits, and I was back home with memories of a most pleasant journey through more than four thousand miles of our great West, much of that pleasure having been contributed by the wonderful performance of the heavy Lovell. Shooting every day, on plain, desert and mountain, its zero never changed; the scope adjustment was never touched. I had missed just one shot on the whole trip, and that was caused by the rocking of the car in a high wind, when I had fired as the sight swung off the mark.

Superb accuracy, constant zero, flat trajectory, mild report, ease and economy of reloading—these make the .22-3000 Lovell, in my opinion the outstanding small center-fire cartridge of today. So here's to the Lovell—one splendid small game rifle whose tribe will surely increase!

Subsequent tests confirmed the unusual accuracy and stability of this load



This Handgun Game

By WALTER F. ROPER

IT IS A BIT DIFFICULT to put one's mind on sport under present circumstances, but as the competitive season is under way, I wish if possible to help those who are taking part for the first time to rid their minds of all unnecessary considerations; and I suggest the fundamental requirement for good shooting, which should be kept clearly in mind. Practice sessions are the time for experimenting and learning; in a match only those things which are vital to one's best effort should be given conscious consideration. Such matters as position, comfort, properly blacked sights, and plugged ears should be attended to as a matter of course, but the basic requirement for good shooting is the thing to keep clearly in mind; and that all-important thing is PERFECT TRIGGER CONTROL, coordinated with easy, effortless holding and aiming. If you will do these things right, you can make good scores.

Years ago I had an opportunity to play a lot of golf with one of the finest teachers in the country, and one day he gave me the following summary of the real requirements for making good shots: "Just remember," said he, "to make the face of the club meet the ball squarely, and have it swing in a line straight toward your objective." Keep this rule in mind in match shooting, for in a match there isn't time to dwell on theory, no matter how correct it may be.

Each of us has a certain amount of ability to hold steadily, though of course the degree of steadiness will not be as great in competition as in practice. The more familiar we become to shooting in matches, the less will be the difference between our practice and match performance; but no matter how much our sights wander about on the target, this one thought should be kept in mind all the time: "I will press that trigger straight back, and without the slightest sudden increase in pressure, no matter what happens." That is the very best rule I can offer for making good scores in matches. Of course you will get some "white ones," and many times the let-off will come when the sights are not plumb under the six o'clock point on the bull, but GET THAT TRIGGER SQUEEZE every time, regardless. Dry practice will help, and I suggest a couple of squeeze-offs with an empty gun in matches where there is time. This will help you settle down, and you will fire your first shot for record with much more confidence.

I suppose there are some shooters who are not at all disturbed by the prospect of entering a match, but so far I have never seen one, and I've lived with quite a number of the very best at Perry during the past twenty years. The nearest approach to complete indifference to "pressure" was Elliott Jones, top slow fire man of the country while he kept at it. Nothing seemed to bother him in the least. His receipt was to completely draw into himself and only be conscious of a groove from his firing point to his target. For most of us I believe that eliminating everything to worry about is one of the best ways to keep calm. That would suggest having everything ready so that there need be no last minute rush. On that basis, smoke the sights early, see that the ammunition you plan to use is counted and ready, and then get your mind off the match just as much as you can. Personally, I have found that thinking over some interesting experience does the job best, and I believe that many can put the match almost entirely out of

mind by the same practice. Anyway, it is worth a trial.

Shooters do not talk with one another on the firing line during a match, for today a single point is mighty important, and distractions when you are finally on the line are not wanted. So stick to your knitting, and save the conversation until the shooting is over. Also, remember that no one is in the least interested in your misfortune in throwing a "five," so don't think it necessary to explain how it happened. Take things as they come, limit your congratulations to a "good work, Bill," and above all and for the love of Mike, don't say to some chap who has made a hot score in one section of a three stage match: "Now if you can only get a good one in your timed fire—." And again, don't do any back slapping. More than one shooter can tell you stories of how such things have affected him. During your first season of match shooting you will probably be a bit self conscious on the line, and feel that a lot of people are watching you. Forget it! Actually, no one even knows you are shooting. Years ago on the old pistol range at Perry, the targets were of the pit type and scorers were located just back of the firing line, each scorer having a blackboard on which the value of each shot was marked as it was spotted by the pit detail. These scorers would call out, in a very loud voice, the value of Mr. so and so's shots as they were fired, and to a new man it seemed as if the whole world must be listening to these announcements. Actually, no one was paying the slightest attention, as I discovered by standing beside one of those boards and watching the reactions of other bystanders. So, just saw your own wood, and forget that you have made a record score at home. Just see if you can keep them "all black," and trust to luck that the nines and tens will be sufficiently numerous to give you a really good total.

Sight Adjusting

With sights that are set by guess—which is the only kind we have had up to a couple of years ago—adjustment during a match is just suicide. You don't know how much to move them to give you a certain number of inches on the target, and you can't be sure they will stay put when you tighten them up. With such sights the only safe way is to hold off and trust to luck. If, however, you have equipped your guns with self locking sights, for heaven's sake use them! They are there for that purpose, and will move your group a known distance for every click, so you can put the group in the center where it will give you top count. Three shots are enough at any time to show you where your group is forming, and, in matches, I believe that if two shots, which you know are well held, go close together and show that you are not going center, you should change right then. Every shot counts in a match, so why wait until you've lost several points before using the equipment you have bought to help you get top scores?

Remember that sights are on a gun to allow you to make the path of the bullet cut the target where you want it to, and as conditions change the point of impact, the sights should be changed to offset this, just as you focus your scope to give you a clear image of the target every time you set it up. Good luck, good scores, good sport.

CORE-LOKT BULLETS

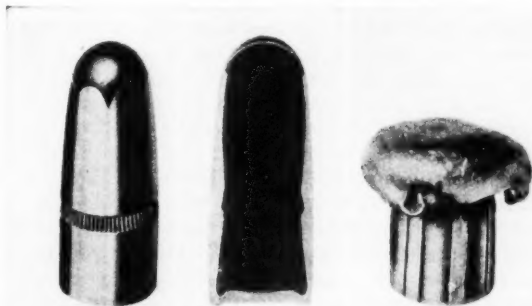
A DOPE BAG REVIEW

NOW THERE ARE AVAILABLE to hunters two types of Remington "Core-Lokt" bullets, hollow-point and soft-point. The former was described in the Dope Bag several months back. The new one has an exposed-lead nose. Its construction and effect are shown in the accompanying pictures. It will be noted the jacket is scalloped at the nose to control its mushrooming. The core-locking is accomplished by an offset in the body of the jacket designed to prevent separation and disintegration and so insure adequate penetration.

As compared with the hollow-point Core-Lokt bullet, first introduced, which gave increased penetration, the new soft-point Core-Lokt tends to give increased expansion. In the .30-'06 caliber, to which we shall confine this discussion, the first or hollow-point version would shoot through a deer endwise in 180-grain weight and through an elk in 220-grain weight. Both were excellent bullets for timber use or for end shots on game running almost directly away from the hunter. On broadside shots in the less-dense body portions of big game these bullets were less destructive but they possessed the desirable property of perforating the animal completely to leave an adequate blood trail.

Our friend, George K. Turner, rancher, rifleman and mount-maker of Eagle Nest, New Mexico, tried these Core-Lokt bullets in both weights on six mule deer and five elk. After thirty years of hunting, Turner was impressed greatly by the "reliable effectiveness" of the new Remington bullets. From one head to another, and at different ranges, the performance of the 180-grain bullet on deer and the 220-grain bullet on elk was pleasingly uniform and dependable. In each case he had complete penetration with full expansion of the bullet, and in no case did any bullet break up. All the bucks and four of the elk were killed instantly with one shot each. The fifth elk was bombarded experimentally with the 180-grain deer bullet at short range and long-range (up to 400 yards), and six shots were required to finish off that big bull. At long range and on end shots in the brush this lighter 180-grain bullet did not show the effective penetration of the 220-grain bullet, usually true of heavier bullets.

The new Remington Core-Lokt bullet, showing construction and performance



Mr. Turner sent us a 220-grain Core-Lokt bullet which he had fired through an elk endwise and into the ground beyond. This elk, facing the shooter at forty yards, was struck at the base of the neck, and the bullet "kicked up dust" behind him. In its tremendous driving force this bullet perforated the body and buried itself in the ground, picking up gravel marks. Turner also sent us a recovered 180-grain Core-Lokt bullet after it had passed through both shoulders of a buck and imbedded itself three inches deep in an aspen tree. Fully expanded, it made an inch-wide hole in the wood.

The new soft-point Core-Lokt bullet is designed to mushroom immediately upon impact, and to expand quickly and evenly along the several dips or points as controlled by the scalloped construction of its nose. The .30-caliber bullet is expected to reliably expand to at least one-half inch and up to double the bullet diameter. Judging from results obtained with the hollow-point version, this new soft-point bullet may well prove to be that happy compromise between the heavy perforating missile and the short-depth disintegrating bullet, possessing some of the killing qualities of both.

So far we have had no field reports on this new soft-point bullet, but the hollow-point version has been used effectively on East African lions, and on elk, deer and moose in America. The ballistics of both types of bullets are normal, being standard for the weight and caliber. We have tried the new soft-point Core-Lokt cartridge in our .30-'06 rifles, and are convinced of its accuracy. We used a Model 30-S Remington bolt-action as issued, with big bright bead and Lyman 48 receiver sight. All factory and Service loads including Core-Lokt 180-grain grouped within 3 1/2 inches at 100 yards. All machine-made loads were bested badly by our handloads. In another rifle this same Core-Lokt load grouped better than most of the other factory loads.

In the .30-30 Winchester, .30-40 Krag and .30-'06 calibers the soft-point Core-Lokt ammunition is made in two bullet weights. It is also available in the following cartridges: .25-35 Winchester, .25 Remington, .30 Remington, .303 Savage, .300 Savage, .32 Winchester Special, .32 Remington and .35 Remington; that is, all the popular ones.

The 30-S Remington rifle with Turner quick-detachable mount and Weaver scope



THE "DUEL" MATCH

SEEDING AND HANDICAPPING

By MAJ. W. A. HEDDEN

NOTE: Major Hedden, the Author of this and a preceding article on the "Duel" Match, has been holding individual and team competitions of this type in connection with his training work at the University of Indiana, and he reports enthusiastic acceptance of such matches.—Ed.

THE SO-CALLED "DUEL" MATCH for Pistoleers, as presented in the August 1939 issue of the RIFLEMAN, has since been tried out in several localities and found to be almost as good as claimed. Notably, it was tried out at Mr. Thomas A. McGinley's Stonedale Range, Sewickley, Pa., in July (1939), and at Camp Perry as part of the final firing in the Pistol School, just before the beginning of the N. R. A. Matches. The latest report is from Lieut. Charles Densford, who staged a "Duel" as part of the Southwestern Matches at Dallas in September. Lieutenant Densford reports particular success with it.

Experience has shown the need for several special procedures not foreseen in the first experiments. First among these is some means of making sure that shooters of renown meet each other in the final stages of the match, if at all, rather than in the first or preliminary rounds. For instance, if the two best shots of a club staging a "Duel" should enter for it and draw adjacent numbers, say "five" and "six," they would shoot against each other in the first round, and one of them would be eliminated right away. This would be all right with the others, but the eliminated shooter, if not so unfortunately bracketed, might have gone on up and been eliminated only in the finals, which would give him the title "Runner-Up," or if you prefer old style terms, second place.

This desperate matter is taken care of in the best circles by a process called "Seeding." Literally, I suppose, it means so placing the rated competitors, that they cannot come together too soon in the play. Tournament tennis players, as well as golfers and other sportsmen using the Bagnall-Wild system of the draw, will know what the procedure is and be able to put it into operation without further explanation. For the benefit of those who may not be familiar with the practice, here it is:

First—A committee usually, or Club officials, decide whether any persons are to be "Seeded." If so, those to be "Seeded" are then rated as Number One, Two, etc.

Second—The committee then places or "Seeds" these persons, according to their ratings, throughout the bracket of competitors, so that Number One and Number Two cannot possibly meet until the Finals, and similarly, Numbers Three and Four cannot meet until the semi-finals. This means that Number One is placed in the upper half of the bracket (see diagram), and Number Two in the lower half; that Number Three is placed in the upper bracket, while Number Four must be in the lower. The same must hold true for any further "Seeded" numbers. It is usual for the committee arbitrarily to assign the "Seeded" Number One man to the number one position in the drawing, the Number Two man to the highest number (lowest placing on the bracket—sixteen, thirty-two, sixty-four, etc.), the Number Three "Seeding" to the highest number (lowest place) in the top half of the bracket (see diagram), the Number Four "Seeding" to the lowest number (highest

place) in the lower half of the bracket, and so on. Any further "Seedings" are placed as "outer" numbers in the upper and lower halves of the main upper and lower brackets referred to above.

Third—The remaining numbers are then drawn by the other competitors in the usual way. "Byes" should all be disposed of in the first round of the match, or in a specially arranged "Qualification Shoot."

Another need for special procedure is for a way to handicap in Club Individual shoots. Experience in staging the "Duel" leads the author to believe that here is one of the most happy characteristics of the "Duel" system of competition. The best straight "Target" shooters are not by any means necessarily the best "Duel" shooters. So the initial "Duel" shoots can be staged with justifiable hopes on the part of the mediocre shots, that they have a darned good chance of unhorsing some of the well known champions. It is frequently done. Nevertheless, sooner or later, the need will arise to give the dubs a run for their money. When this time comes, there is a choice of two ways to handicap. If the shooters have a known average over any given course, they may be handicapped on that basis. A suggested method is shown in *Method One* herewith. If they have been firing "Duels," one or more complete matches, they can be handicapped according to past performances, and a scheme such as that shown in *Method Two* may be used.

The "Duel" has been found to be a success when fired on regular "Bullseye" targets. This has the advantage, of course, of requiring no special apparatus or set up. The "Seconds" score the targets, subject to the rule that a competitor may concede a close hit to an opponent; only in case of disagreement between the two opponents is the "Second" required to decide. Then his decision is final. This procedure does away with a great deal of petty difficulty and makes for a much faster, smoother match. The gripes about the scoring disappear completely, glory be.

The advantage of firing on breakable disks is that this affords spectators, if any, an immediate picture of events, and on top of that, even gives each man a picture of what his opponent is doing while both are firing. That is, if the shooter is foolish enough to let his wits wander from his own front sight and targets. And if you do not believe that seeing the other fellow's disks break, causes "Tremor of the Trigger Finger," try it yourself sometime.

The author believes that each type, "Bullseye Duel" and "Disk Duel," has its uses, and that the one supplements the other. The bullseye duel is wonderful fun and good practice, and the disk duel is the kind for "blood" and for spectacular purposes. Whichever kind is used, the large blackboard with the bracketing and pairing of all competitors in plain sight, kept up to date with the firing, is an essential. The regular printed sheets put out by some of the golfing supply companies are excellent. Commonly, each of these

will take care of a match of thirty-two entries or less, and of course two sheets can be combined for more.

Method One

Handicap Method on National Match Course Average

1. All competitors are rated as 240 men, 250 men, 260 men, etc., according to where their known "Match Average" places them; i. e., all who average between 240 even and 249.99 are "240 men," etc.
2. When firing against men of the same rating, or of the next higher or next lower rating, competitors fire on equal terms—no handicap.
3. When firing against men in the second classification up or down, a handicap of one scoring space is allowed; i. e., if a 240 man is pitted against a 260 man, the 240 man gets a "hit" for all shots in the nine ring or better, while the 260 man must stay within the ten ring.
4. When firing against men in the third classification up or down, a handicap of two scoring spaces is allowed; i. e., the lower man gets a hit for all shots in the eight ring or better, while the higher man must stay within the ten ring.
5. The same principle is carried out, as far as desired, for greater differences in ability.
6. If desired, instead of requiring the higher rated man to stay within the ten ring in all cases, it may be provided by Club or Match Rules that the higher man in all cases, handicaps or otherwise, gets hits for shots within any given ring, the lower man getting hits for correspondingly lower values; i. e., a 260 man would get hits for anything within the nine ring, while a 240 man firing against him would get a hit for anything within the eight ring.
7. When breakable disks are used, handicaps may similarly be arranged by disk sizes, of which there are, to the author's knowledge, at least three on the market. (The full size Clay Pigeon, the "Duvrocks," and the Mo-Skeet-O.)

Method Two

Handicap Method on "Duel" Performance

1. All competitors are rated as First Round Men, Second Round Men, Third Round Men, etc., depending upon whether they were eliminated in previous matches in the first, second, or third round, and so on. If performance in more than one Match is the basis for the rating, the average round in which eliminated is used, a fraction over, placing a man in next higher rating. For instance, if in four Matches a man was eliminated in respectively the first, second, third, and fourth rounds, he is a third round man ($1+2+3+4=10$, divided by $4=2\frac{1}{2}$, the fraction placing him in the next higher category).
2. When firing against an opponent in the same, or next higher or lower classification, no handicap.
3. When firing against an opponent in the second higher or lower classification, a handicap of one scoring space is allowed, as explained in the handicap system based upon match course scores.
4. When firing against an opponent in the third higher or lower classification, or when still greater difference in

skill separates the members of the pair, a handicap of two or more scoring spaces is allowed, to the extent desired by the club. See also paragraphs 5, 6, and 7, of the National Match Handicap system.

Numbers for the Draw.

1-SEEDED No.1

2-

3-

4-SEEDED No.5

5-SEEDED No.7

6-

7-

8-SEEDED No.3

9-SEEDED No.4

10-

11-

12-SEEDED No.6

13-SEEDED No.8

14-

15-

16-SEEDED No.2



"All the moving-target equipment mentioned"

GAMES *and* GUNS

By F. C. NESS

SOMETHING VERY NEW WILL BE SUPPLIED Mossberg jobbers beginning this month. The inclusion of a target trap as an auxiliary part of the gun is a new enough idea to qualify for a basic patent. The Mossbergs put this trap on the barrel of their smooth-bore .22 bolt-action, with a finger release hook just ahead of the forestock tip. The spring-actuated trap is clamped to the barrel, and ahead of it, on the muzzle, is threaded the patented Mossberg "Slug buster" choke-tube of about .410-bore diameter and 8 inches long. This choke tube is designed to prevent the balling together of several pellets which would make the light shot load dangerous in some places. They call this new (M-42TR) creation the "Mossberg Targo."

The swinging arm of the trap is cocked by pulling it back until it latches. Then a Mossberg miniature clay target is slid into the grooves. After the chamber has been loaded, a pull on the finger hook sends the tiny disc on its looping flight to challenge the operator to align his gun and squeeze his trigger. The trap is sprung with the left hand and the trigger is squeezed with the right. Whether the butt is held low, as in Skeet, or on the shoulder, as in Trapshooting, the trap on the barrel tends to unbalance the gun, and makes the hitting of the target with the small shot charge a very sporting proposition.

The small Mossberg targets came 200 in a carton. They were specially packed, protected with rubber bands, and none were broken. These targets can be thrown from the Mo-Skeet-O ground trap, but the small Mo-Skeet-O targets, of practically the same shape and size, will not fit the Mossberg trap grooves, because of their rim thickness. These new Mossberg targets cost a little more than one-half cent each. The trap throws straight-away, curving, high or low "birds," according to the position of the gun at the moment of release. Nearly all targets break when they strike the earth, but a 20-foot net can be had from Mossberg, at about \$5.00, for conserving those targets which are missed by the shot charge. Another way of doing it is to back up the operator with a second gun.

We used the Remington Hi-Speed .22 Long Rifle shot cartridge, which contained 112 pellets of No. 12 size, by

count. After fouling the gun with five shots we patterned it at 50 feet. After 75 shots we tried it again and got improved patterns. The spread ranged from 11 x 15 inches to 19 x 19½ inches and the hits in a 10-inch circle ranged from 29 to 47 pellets. The first mean was 36.3 pellets and the final patterns averaged 43 hits. We found the outfit would break its targets at 50 feet.

The gun has a large hooded bead in front and an open barrel sight, because it can be transformed into a .22 rifle by replacing the shot tube at the muzzle with a .22-caliber rifled adapter. We tried this and were surprised to average 2.26 inches per 10-shot group at 50 yards for 50 shots with two kinds of ammunition. Our 10-shot groups on different aiming point were: 1.58, 2.47, 2.21, 1.92 and 3.14 inches. More than 80% of our shots grouped into 1.58 inches and we felt that the spread was not determined by the barrel but only by the limitations of those coarse open sights. The outfit costs less than \$12.00 equipped for shot and bullets, and the trap is listed at less than \$7.50. The gun is a bolt-action repeater with detachable clip magazine which holds 7 cartridges. This worked very reliably with the shot cartridge which we tried.

This outfit can be used independently by the owner because he can throw his own targets. He can throw his targets at different angles and elevations according to his training requirements. The gun has rifle sights and emphasizes rifle-shooting technique rather than scatter gun principles of aim. The outfit is adapted also for group use because it can be independently used as a hand trap, as a scatter gun, or as a .22 rifle. Finally, it is comparatively inexpensive and within the reach of just about every pocketbook.

It must never be forgotten that the solid .22 bullet has a danger zone of nearly a mile, its extreme range, and a safe back stop for bullets is imperative. In plinking with any rifle or pistol aerial target practice is unsafe unless every shot is directed against a cliff, hill or high embankment. This must be borne in mind even when smooth-bore .22 guns are used on flying targets because some absent-minded shooter might try a ball cartridge. The rifle adapter of the

Mossberg Targo demands particular care in this respect.

There are other games of this kind which should be mentioned. Nearest kin to Targo is Mo-Skeet-O, which also employs .22 shot loads on miniature brittle targets thrown from a trap. We have previously reviewed this fascinating shotgun-training game. Its ground trap can be securely anchored and operated by the shooter by means of a light rope or heavy cord. It can be adjusted to throw targets at different angles and elevations, as well as doubles. The guns used are specially smooth-bored .22 rifles, converted for the purpose or furnished new by the Mo-Skeet-O firm of Monroe, Michigan. A good repeater like the M-121 Remington pump gun can now be had for less than \$30.00.

The writer purchased one of these for his own use last Christmas and fired it for the first time the other day. It looks and feels like a miniature shotgun rather than like the rifle it originally was. It handles beautifully and swings as effectively as any shotgun, as unbroken runs on right-angle "birds" attest. This Mo-Skeet-O bore throws slightly better patterns than the Mossberg Targo, tried on the same day under identical conditions. At 50 feet its spread ranged from 12 x 14 inches to 15½ x 16 inches showing better uniformity, and its hits in the 10-inch circle ranged from 42 to 65 pellets. The first mean was 50 hits, and, after firing 75 shots, it averaged 54.5 hits in that 10-inch area. This gun will break its targets reliably at 50 feet and some of them up to 75 feet.

A point I want to make is that Mo-Skeet-O is in the same category as any other shotgun game. With the shotgun we align the gun by mounting and cheeking it properly and thereafter keep our eyes on the moving target without any direct reference to the gun or its sketchy sights. In rifle shooting we depend on our basic training in gun control, exact sight alignment, and trigger squeeze when we graduate to rapid fire on stationary targets and finally to quick work on moving targets. Except for the autoloading models, shotguns require a handling technique and a method of manual operation different from those of any rifle, and even the autoloading shotgun has little in common with the rifle except in that it is another firearm. In fact, the only exception is the shotgun equipped with scope sight, and aimed a la rifle.

Bill Stowell Associates of Canton, Maine, have a magazine ground trap which on each pull of the rope throws a thin wooden disc to a pre-determined height. It is well adapted for use of the .22 rifle against any hill, high embankment or other safe bullet stop. The same is true of Read's rolling game which comprises two magazine traps and two inclined steel plates on which right and left discs are rolled at a pull on its release cords.

The fascinating Stowell flying targets fall with the speed of a parachute, and teach proper lead on falling objects. The rolling game uses Peters Duvrock brittle targets or unbreakable steel discs interchangeably, and teaches proper lead, body swing and that essential "follow-through" for effective fire on moving targets. Mr. Read has offered to send plans for building his outfit to any N. R. A. club interested in trying his game. His address is, L. C. Read, Box 113, Framingham Center, Massachusetts.

Any plinking rifle can be used in these rifle games, but the best ones are the .22 autoloaders now available from all makers. The .22 Short is the best cartridge for this purpose, and a semiautomatic of this caliber should be chosen. In .22-Short caliber the best autoloading rifles we have tried are the M-241 Remington and the M-74 Winchester. The

latter is a blow-back bolt-action, equipped with a one-piece stock, which ejects through the right side of its long receiver. The Remington has a two-piece stock and the lines of the hammerless slide action. It has a blow-back breech block and ejects through the bottom of its short receiver. Both rifles have tubular magazines which are loaded through the buttstocks, the capacity of the Winchester being greater. The M-74 is somewhat steadier to hold on deliberate shots, but in quick fire the more crooked and lighter Remington is just as good, and to me it seems slightly faster in action. Both actions are very reliable, and our pair are running neck-and-neck in function. The M-74 ran 1400 rounds without a functional failure, but gave us a few stoppages in the next hundred rounds with some questionable ammunition.

All the moving-target equipment mentioned is shown in the group photograph. The Read rolling game is shown in the foreground with the Mossberg Targo leaning against it. The Mo-Skeet-O gun, leaning on the target carton, and the trap, are in the middle with the small Stowell disc-tossing in the background. As games pure and simple, they are interesting and entertaining. As such they can be played with any small-bore rifle, pistol or shotgun, always providing a proper backstop for bullets is used. As training devices they have certain merits as already explained, but none of them is as good or important or fundamentally sound as basic slow-fire training with the regular .22 target rifle which can be had at any N.R.A. rifle club or camp firing school.

In the picture below Barr's camera caught the writer just a moment before he blasted the Stowell wooden disc shown in the upper left. It can be noted that the gun is being swung ahead of the target for proper lead. The Stowell trap was on the ground to the left of the shooter.

The Remington .22 Shotgun and Stowell target in use



BRIDGEPORT, CONN., JULY 1940

Rifle Remington

REMINGTON ANNOUNCES RIFLE...THE MODEL 513S

POSSIBLES and IMPOSSIBLES

by FRANK J. KAHR



I have received numerous letters asking how to go about getting a new trigger on an old Model 37 rifle. Just send your rifle to the Remington Arms Company at Ilion, N. Y., with a shipping ticket attached to the trigger guard with your name and address and the number of your rifle on it. Then write a letter enclosing check or money order for \$10, stating, of course, that you wish one of the new triggers. The factory will go about installing a new trigger, making a few cuts in the receiver and the stock and pretty soon the new trigger is installed and the gun working beautifully. They will then return the gun to you, express collect. Oh, yes, when you send the gun, be sure the express is PREPAID.

The Eastern Smallbore Championships will be held for the fifth time at Camp Ritchie, Maryland, this summer; and it hardly seems possible that five years have elapsed since they started building the rifle range there. So far as we are concerned, and taking everything into consideration, Camp Ritchie is the finest rifle range in the country.

In coming to this conclusion we have carefully considered every angle of what should go into the making of an ideal rifle range, and we mean no reflections on any of the other fine ranges in the country when we place Ritchie in the fore rank of rifle ranges. We do so, first, because of its situation in the Blue Ridge Mountains where you have unlimited room to move around, natural backstops, lots of fresh air, plenty of wind and best of all, beautiful scenic surroundings. It is an ideal place to spend a vacation either for rifle shooting or recreation. You have got to come to Ritchie to realize what has been accomplished since the first spadeful of earth was turned to level off the terrain of stumps, boulders, hillocks and whatnot—including a meandering stream that started nowhere and arrived at the same destination.

Today it is a finished range, a broad stretch of greensward that is delightful to the eye with lots of targets and room for expansion. It is a monument to the persistence of one man to make Camp Ritchie the finest rifle range in the world,—that man is General Milton A. Reckord, who needs no introduction to rifle shooters anywhere.



Another new Remington triumph— the Model 513S Sporter

*A smart, racy, streamlined sporting rifle
at an exceptionally low price*

Here's a gun that's truly a delight to look at, handle and shoot. It fills the long-felt need for a really high-grade .22 caliber sporting rifle at a reasonable price. Costing only \$26 complete, the Model 513S Sporter looks and shoots like a gun twice its price!

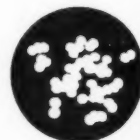
The streamlined sporting stock of American walnut has a rich dark finish that's unique in guns at this price. Pistol grip and fore-end nicely checkered. Tapered barrel is bored and rifled for extreme accuracy. Double countersunk at muzzle. Short, fast, firing pin travel. Smooth, crisp, short trigger pull. Adjustable trigger stop to prevent back-lash. Positive side lever safety and firing indicator. New type bolt handle. Sharply checkered steel butt plate. Front and rear screw eyes for sling swivels. Detachable magazine box holds six cartridges.

Standard sights are Patridge type front sight mounted on a special non-glare ramp and new style step adjustable sporting rear sight. Dovetail slots concealed under front and rear sights permit fitting of special sights. The receiver is drilled and tapped for the Redfield No. 75 micrometer rear sight. Length over-all, 45 inches. Length taken down, 33 inches. Weight, about 6¾ pounds.

This gun is made to order for the man who knows and appreciates a fine arm. Be sure to see it at your dealer's.

Phenomenal test groups made by new Model 37 and Targetmaster

Here's a sample of what a new hot combination the new Model 37 and Police Targetmaster ammunition can be.



top group, fired in a matter of minutes, rests at 100 yards, adds up to 10 shots. The exact average extreme spread is .82 inch!



Here are a couple of ten-shot groups at the same range, same gun and same ammunition. The groups measure 7/10 of an inch!

This kind of accuracy surpasses belief. But it gives you an idea of what this gun and ammunition can do.

INTRODUCES A NEW .22 MATCH MODEL 513T "MATCHMASTER"



A COMPLETE TARGET GUN, READY TO SHOOT

No extras, no gadgets are necessary with the Model 513T. It's complete, target stock heavy barrel, micrometer sights, even the sling. At \$29.95, we believe this gun is one of the best values ever offered to riflemen.

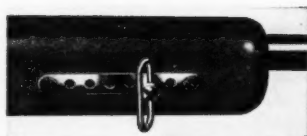


(Above)—Redfield globe front sight has 7 interchangeable discs for all kinds of conditions. The globe is double countersunk in order to protect the rifling from damage.



(Above)—Redfield No. 75 micrometer rear sight, with quarter turn clicks. Barrel tapped for scope blocks—high, thick comb straight back, so eye finds target quickly, naturally.

(Above)—New anti-backlash trigger stop. Short, smooth, crisp pull. Set screw controls movement. Trigger corrugated to prevent finger slip.



(Above)—Adjustable front sling swivel makes gun fit both long and short armed shooters. Notice the width of the beavertail fore-end, which rests comfortably on your hand.



(Above)—Pistol grip puts hand in just the right position for sensitive finger control of the trigger. New type bolt handle. You'll be surprised how easily and smoothly the action works.



NEW REMINGTON MEETS DEMAND FOR A MODERATE PRICE TARGET RIFLE, ONLY \$29.95

Sporter model also introduced

BRIDGEPORT, CONN.—Thousands of shooters in schools, colleges, summer camps, new industrial rifle clubs and other organizations have been waiting for this new moderate price target rifle.

The Model 513T sells for only \$29.95 complete, down to sights and sling. It has many of the outstanding features of its famous big brother, the Rangemaster Model 37.

The gun weighs about 9 pounds. The special target stock has a new pistol grip—a high, thick comb—and a long, wide beavertail fore-end similar to the 1940 Model 37. Stock is made of selected American walnut, with a beautiful dark finish. Heavy, 27-inch, semi-floating barrel is double countersunk at muzzle, carefully bored and rifled for target accuracy. Chambered for .22 long rifle cartridges.

New anti-backlash trigger stop insures crisp pull

A new anti-backlash trigger stop gives you the clean, crisp, smooth trigger pull essential for real high scoring. Short, fast firing pin travel. Corrugated

trigger. Double locking lugs on bolt. Double extractors. Sharply checkered steel butt plate. Firing indicator. Positive side lever type safety. Adjustable front sling swivel. Government type sling of fine, high quality leather—1½ inches wide.

Micrometer target sights

The Model 513T is equipped with a Redfield globe front sight with 7 interchangeable inserts, and a Redfield No. 75 micrometer rear sight with ¼ minute clicks. The barrel is drilled and tapped for scope blocks—the holes filled with plug screws. Detachable magazine box holds 6 cartridges.

Length over-all 45 inches. Length taken down 33 inches.

Expert shots who have tried the Model 513T have been amazed at its accuracy and high quality.

Ideal for 4-position shooting

Its fine balance makes it an ideal rifle for four-position shooting, as well as for straight prone work. Stop in at your dealer's and take a look at it. We believe you'll be as enthusiastic about it as we are.

EVOLUTION OF A 52

By—JUST "MACK"

ALONG IN 1932, HAVING GOTTEN MY FINANCES hopelessly entangled with the trend of the times, I suddenly found myself transplanted from my native Ohio to a spot near the Minnesota-Canadian border that was ten miles back in the brush from nowhere and sixty miles from the nearest town worthy of the name. I'd always wanted to go to Minnesota for a little serious hunting. Now, there I was, with nothing left but a few guns I couldn't part with, even though it several times came to a choice of selling them or eating. But this is the story of a 52 and not a treatise on economics.

I soon discovered that quite a few turkey shoots were held in the surrounding country. I had disposed of my target rifle so I couldn't figure a way to enter them until a neighbor boy came in with a badly battered specimen of one of those kid rifles that Winchester called their Model of 1904. The barrel was good so I set to work. I forged and filed out a set of sights, speeded up the action, lightened the trigger pull, and altered the bedding in the stock. A brief course of instruction was given the owner of the gun and then we set out after turkeys; and did we get them! At the first match, thirteen turkeys were put up. We came home with eight of them. The rest of that season we were consistent winners. The following year I took in a match at the start of the customary shooting season. Three turkeys speedily fell to my rifle and then the boys refused to compete further unless a friend and I shot offhand while the rest fired prone with a rest. The result was that both offhand shots and one prone shot hit equidistant from the center of the ten ring at fifty yards. On the shoot off, I won the bird and the match broke up right there. Possibly it wasn't strange when no more shoots were advertised.

With the turkey shooting gone, a little group of us got together and organized a rifle club. As the only one with any previous shooting experience, I was named Executive Officer and Coach. And here was a problem because the little old 1904 rifle wasn't equal to target work. Providentially, an old Ohio friend came up to see me. He told of seeing several Winchester 52's in a little gunshop in Rochester, Pennsylvania. Before he left I entrusted my pet 3" Ithaca 12 gauge to him and told him to trade it for one of those 52's. About three weeks later I received a box full of rifle.

A hasty check revealed that it was really a 52, but the vintage was of about 1920. The magazine belonged in a Model 69 and held only shorts, so it went to the junk box. A previous owner had hollowed out the forestock and filled it with lead, with the result that it split from end to end. It was probably the same owner who attempted to speed up the old slow action by filing back the striker notch to cut the fall in half. It had a nice 17A front sight and no inserts. The regular Winchester rear sight had a bent windage screw and a lot of lost motion. The barrel seemed perfect but a test at fifty yards scattered shots all over the lot.

I now started the first of a long series of operations on that gun. I flattened the old style round firing pin tip like the newer ones. A stronger striker spring was substituted and a piece of drill rod about $\frac{1}{4}$ " x $\frac{7}{8}$ " was shoved in behind it so that the spring was under maximum com-

pression with the gun cocked. A little bit of work with a set of drills and needle files created a set of inserts for the front sight. Taking up the slack in the rear sight was simpler. A couple of cross bolts through the forestock stiffened that, and I was ready for another test. This time, with muzzle and elbow rest, I achieved 2" groups at fifty yards. Not so good, but it was improving. A closer check revealed that the bolt holding the action to the stock was bent, causing side pressure on the barrel. With this corrected I made $\frac{3}{4}$ " groups at fifty yards with a rest. I had always hankered for a palm rest, so without checking the rules for any revisions that might have been made since I had been affiliated with a rifle club I proceeded to do something about it. A beach ball and the old 69 magazine were resurrected from the junk box. A coat of varnish remover took the paint off the ball. I filed out a few brass fittings and coupled up the whole assembly. The result was a thoroughly satisfactory palm rest.

A range test produced a slight headache. That gun was perfect offhand but it certainly was erratic prone. It was extremely sensitive to a change of ammunition brands and showed a decided preference for Lesmok powder. A little extra sling pressure would string shots clear into the white. I had to learn to shoot with a slack sling and to make up the points offhand that I was dropping in the three other positions. Being temporarily out of ideas I left the gun alone until after our first match, which was scheduled a few days hence.

That first indoor match was proceeding quite smoothly. Our boys were taking a trimming because they were so new to the game. I got through the prone, kneeling and sitting positions without disgracing myself too badly, and then came offhand where I expected to shine. I fired a shot and casually remarked, "There's a ten." "Plink," and "There's another one." It seems that I had called attention to myself, for the next thing I heard was, "Hey, you can't use that punkin' on that gun." So my palm rest was gone.

That gun wasn't all grief but it was to be the cause of a chronic headache for a long time to come. Our team practiced constantly with the enthusiasm so often shown by beginners and they were really getting pretty good. So a few months later we went to Biwabik, about sixty miles away, for a match. Our team won and my gun placed high for both teams, even though I had to use a slack sling and change the sight setting for each position. But that galloping zero was too hard to keep track of when I had to depend on a neighbor to spot shots for me, so I ordered a No. 1 Malcolm 10X scope. Trouble again. I got Lyman mounts with it, but I soon learned that the front one isn't of a standard height when furnished with a Malcolm scope. I couldn't zero the thing until I had dug up a higher front dovetail block. Then the crosshairs weren't vertical. I had to remove them and widen the adjusting slot in the rear of the tube before they looked right. About this time Stoeger started advertising French walnut Olympic type stocks and I couldn't resist buying one. It turned out beautifully after I had shaped it to my own ideas and finished it with tung oil and linseed oil. But I would sooner inlet a rough sawed blank any day than to try again to bed a rifle in a blank that has been hogged out with a router.

A shooting table test with the new stock and scope gave me the best groups I had yet seen from the old gun; but I still didn't have a magazine. I had an idea that being able to load without shifting position would add more to my score than a few bullet scratches would take off of it, so I rounded up a ten-shot magazine and went to a shoot at Superior, Wisconsin. I'd have sold the gun for about fifteen cents before it was over. I quit after making a 93 prone.

Home once more, I went to work on my Judas. A test gave some beautiful alternating tens and sevens. On prying into the innards, the only thing I could find that didn't look right was that the new magazine was exerting considerable pressure on the wood of the stock. With that freed, the old gun shot consistent but ragged possibles. By this time I was getting so disgusted that I decided to make a gun of it or ruin it trying. The first step was to drill and tap the upper tang, and bolt it solid to the rear of the trigger guard. I shimmed the fore end tip with bits of cellulose tape so that it exerted five pounds pressure on the barrel. Any change in this pressure spread the groups. The headspace seemed excessive, so I cut a washer from the side of a condensed milk can and inserted it between the body of the bolt and the bolt handle. Immediately the gun lost that preference for Lesmok powder and its sensitiveness to certain brands of cartridges. I didn't like the looks of the knob on the back end of the striker so I took the hack saw to it. Here was a couple of problems rolled into one. It was glass hard and I couldn't even scratch it, so I dug up a high speed blade and finally worried it off. And then that striker which had appeared to be so nicely made from one piece of steel promptly separated itself from its cocking cam and dropped apart in my hand. I grooved it a bit on a grinder, set it up in a plaster cast and brazed the cam back on again.

I was still mad at the whole outfit so I decided to raise a little heck with the scope. I have used a lot of Malcolm scopes and they were all good except mine. It was so dark on some of the poorly lighted ranges that I couldn't spot bullet holes at fifty feet. The eye relief was so short that the full field of view must have been back inside the ocular lens; anyway, I couldn't get close enough to it. So I boxed it up and fired it back to Mr. Malcolm. He proved to be in an obliging mood because he gave me some bright lenses, changed it to eight power, and stretched the eye relief out to a full two and a half inches.

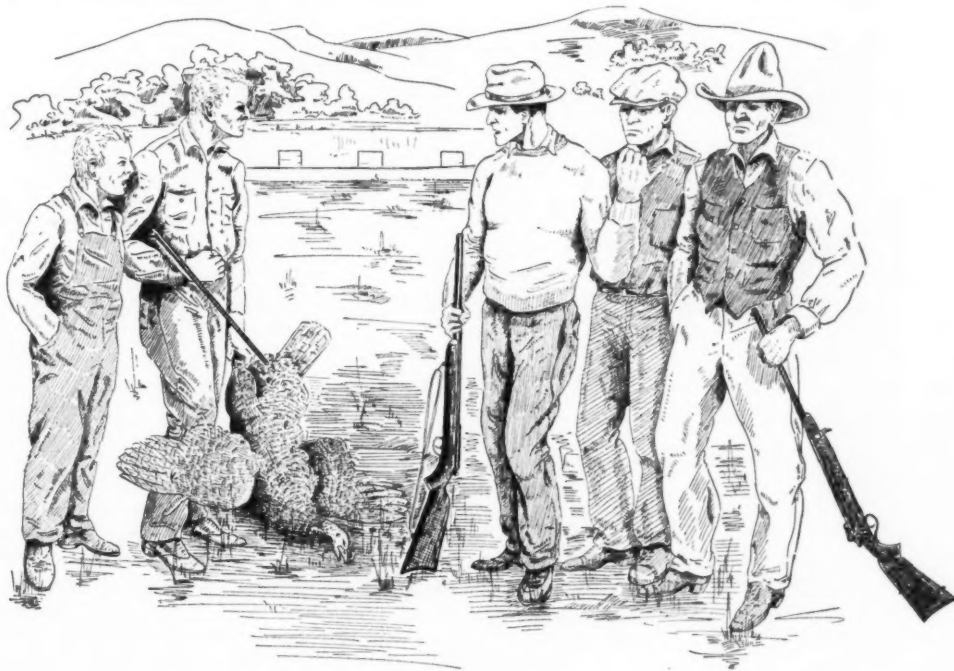
Now I was ready for a trial, and the outfit would either go to town or to the junk corner. A bench rest group

looked great, but it had done that before. I put the sling on and tried a string. What? There must be a mistake. I tried it again with widely varying sling tension. It did it again, and it was a ten X possible. A few weeks later I took Judas to the spring tournament of our league; but the jinx was gone. I came out of it with a nice gold medal and a nine X possible.

That old 52 is still evolving. Recently I sent a paper pattern to W. Gondyke over at Plainfield, New Jersey, and in due time received a beautiful piece of burl walnut. Right now I am utilizing my spare time shaping it into a Bull Pup stock, a la Albree, with a cheek piece like the Stoeger stock, and a few of my own ideas thrown in. I have a hunch it is going to pull up my offhand score by bringing that waving muzzle back so close to me that I can control it. And that swell just forward of the trigger, well, that's going to be a perfectly legal palm rest to take the place of the punkin' I had to discard.

Just as quick as I can collect the bounty on that wolf that is still at the door I am going to make a few more changes. On paper they figure out perfectly. A chunk of coldrolled tubing, 1½" x 20", with a Parker liner, will be the barrel. I'll extend it 10 or 12 inches by threading on a piece of Shelby tubing of the same outside diameter. I'll have the weight right back in my lap while the Shelby tubing will provide a decent sighting radius and mounting for my scope. The old specters of sling tension, whip, and vibration should be banished. Shortened barrel time for the bullet is worth considering and the chances of uniformity are greater in 20" than they are in 28". Then the Malcolm scope is going down to Litschert for a new 1½" objective lens. When I get through with that 52 neither Mr. Winchester nor the previous owner would recognize it. But I'll probably trade it off then, and start all over again on a new one.

*" * * * and then the boys refused to compete further "*



No. on Photo	Weight Complete Axe	Overall Length	Length of Head	Width of Bit	Thickness of Head at Eye	Width of Handle at thinnest part	Breadth of Handle at narrowest part
1	12 oz.	11 3/4	5"	2 1/16"	9/16"	9/16"	5/8"
2	13 3/4	11 3/4	4 1/2	2 3/8 x 2	3/4	11/16	3/8
3	20	15 3/4	6	2 11/16 x 2	3/4	7/16	3/8
4	6	8 1/2	3 3/4	1 15/16	1/2	1/2	1/4
5	9 1/2	10 1/2	3 3/4	2 5/16	1/2	1/2	1/4
6	16	10 1/2	4 1/2	2 1/16	11/16	11/16	1 3/16
7	11	10 1/2	4 1/2	2 1/16	3/4	1/2	3/8
8	12	10 1/2	4 1/2	2 3/16	3/4	1/2	3/8
9	13 3/4	13 1/2	4 3/8	2 1/16	9/16	9/16	1 1/16
10	19 1/2	13 1/2	4 3/8	2 1/16	13/16	11/16	1 1/16
11	21 1/2	15 3/4	5 9/16	3 5/16	13/16	11/16	1 1/16
12							

THE SMALLEST AXE

By MORGAN VAN MATRE

FITZGERALD OF COLT'S REALLY STARTED THIS. Several years ago Fitz, Dr. Warner of Baltimore, and the writer were seated under the shade of Camp Perry's trees discussing the smallest practical outfits for shooting, gunsmithing and camping. Fitz recalled the small cut down Marble Axe I had made up and presented to him some years before when on one of his visits to Cincinnati. Venturing that this could be beaten in weight and size, I told them on returning home some experiments might be begun. Most of the spare evenings of the next winter went into axe making and some of the results are as shown in the illustrations. Assistance was given by various mechanical friends, my chief aid being Powell & Clements' famous gunsmith, Joe Lamping, who can do what anybody else can with guns and some beside. Manager Phil Overbeck told me that this was probably the first time his century old firm had made axes but they were willing to help out for once. So do not ask me or them to make an axe for you as one swallow does not make a summer.

I have nothing to sell and if you want an axe for yourself you may get enough information from this article to work out your own salvation.

We decided first to reduce the present No. 5 Marble to usable condition. The result is shown at No. 9, on the opposite page. As issued, shown at No. 6, it weights 16 ounces, the blade is too thick to cut well and the sheath slot in the handle cuts the hand after any continued use. This axe can be obtained with wood handle minus the sheath or the head alone can be had. At first they charged \$1.00 extra to omit the guard and would not sell the head separately at all. A more intelligent policy now prevails. Despite the poor quality of hickory in the handle, it can be worked down quite a bit and still be sufficiently strong. The length was left as was and thinning and shaping resulted in a much more pleasing form. The blade was thinned and narrowed and the handle after reducing operations was treated to repeated coats of linseed oil well rubbed in. The steel, while not of the best grade, will pass. Many visits were made to 430 Main St. while the work went on and at last we had an excellent little axe weighing all told 11 ounces.

Still not satisfied, work was begun starting from scratch. Joe selected a piece of Swedish tool steel $\frac{1}{2}$ " x 2" and 4" long. Three $\frac{5}{16}$ " holes were drilled in the center which later enlarged by filing afforded an eye for the real honest-to-goodness second growth hickory handle hewn from a 3" hickory sapling that had been seasoning since fall. There is no comparison between such wood and that furnished by Marble. It is shown at No. 5 and must have somewhat approximated the little tomahawk that Kephart describes in his Woodcraft. He unfortunately gives no dimensions for this except to say the head weighed 8 oz., the bit was $2\frac{1}{2}$ " wide and with handle and home made sheath the total weight was 12 ounces. This is fairly broad and by consulting the table of statistics you will see it was a little wider than the Marble Axe. The total weight of this axe is $9\frac{1}{2}$ ounces. We again attempted and this time we went down the scale to the ultimate but it proved to be too small and too light. Shown at No. 4,

you can see how tiny it is. Not only was its head too light but the handle so thin it cut the hand when a full stroke was taken.

Shifting to the double bits, 1 and 2 were produced. No. 1 is made of semi-high speed steel with the idea of leaving one edge slightly blunt to cut nails, etc. It did not result successfully. No. 2, if one must have a double bit, is the best of its kind and really cuts.

Again we went to Marble. No. 10 shows the head fitted on the home made handle with a good sized stop on it. Except for size this is the best cutting of all the smaller sizes but the extra inches in the handle make it very much less portable.

No. 7 shows the standard Marble with handle as short as usable and the head is not only thinned but shortened about $\frac{1}{2}$ ". This involves an immense amount of work in grinding and is hardly worth the trouble. Equal results can be had by taking the standard head which is shown at No. 8, the standard axe cut down to be slightly larger than No. 9.

No. 11 shows the Peavey Auto Hatchet which is a strong usable tool but has too thick a head to be much of a cutter. For comparison see the photograph at No. 3 and 12 which are the old Damascus Axes—alas, no longer made.

As between 3 and 12, No. 12 is far the superior tool. Personally, while a good double bit can be produced and has the great authority of Nessmuk behind it, the single bit seems far preferable for general use. I understand the Damascus Axe was made by the Colclesser Company whose address is unknown to me but was some place in Pennsylvania. Their steel was superior, the finest I have ever seen in a commercial axe and the handles were of the best quality.

My conclusion after these experiments is that to cut properly the minimum weight of the completed axe must be 10 oz. and preferably 11 oz., the handle may not be shorter than 9" and the blade must be thin. It must be either long and narrow as is the Marble head, or, and this is the only other alternative, it must be broad. Both seem to work out equally well. Unless one wishes to go to a great deal of expense, there is no necessity of doing other than procuring a No. 5 Marble Axe with a wooden handle, minus the sheath, and thinning down both the blade and handle. This involves very careful grinding and experimenting and after each little bit is taken off the axe must be used to get the best results. I did most of the filing of the head, made the handles and did most of the grinding; the forging on the blades and the tempering was done by Lamping. Other axes have been made besides these but they presented no points of difference to justify including in the photographs. Am now experimenting with a spring brass clip guard for the bit which will do away with more or less bulky leather sheath that is customary.

If this article is of interest to enough readers, I may describe the combined bench and chest of tools for gunsmiths, weighing about 15 pounds. Professionals have pronounced it capable of stocking a rifle and doing most ordinary gun tinkering.

RIFLE-SHOOTING

IN INDUSTRIAL PLANTS

By EVERETT D. SHIRE

MANY LARGE INDUSTRIAL ORGANIZATIONS make it a practice to sponsor baseball, tennis, golf, horseshoe pitching, and many other activities as a part of their personnel work. Some few have permitted rifle shooting along these same lines. It is apparent that the average shooter has not taken full advantage of this possibility. There are many small industrial clubs which operate on about the same basis as other clubs, that is, the shooting is done by a few of the best shots and very little is done to encourage new shooters or to create interest in shooting. This lack of interest on the part of the participants results in a similar lack of interest on the part of the management.

The writer has just completed a year with an industrial rifle club which, through the institution of certain policies and procedures has produced amazing results and would like to discuss them so that other industrial organizations might profit by our experience. Like a great number of other clubs, the rifle activity had been centered in a very few people and there was little or no shooting done except by the usual high five. No one seemed to care whether or not the activity was carried on and no effort was made to make shooting interesting in any sense of the word.

During November, 1938, the writer was asked to head up this activity and to see if there was sufficient interest to warrant continuing it. Being a pistol shooter was the only shooting qualification the writer had for this position. After agreeing to make an attempt, the first action taken was to secure a group of assistants who were interested in shooting. The major portion of those selected were men holding commissions in the Officers Reserve Corps and were all capable instructors and shooters.

The first job we had to do was to supervise a turkey shoot which had been scheduled prior to our taking over. We were frankly appalled at the type of shooting we were called upon to witness. Three points stood out very clearly, as follows: First, there was a decided interest in shooting, as 600 people attended this shoot; second, it was amazing how little the majority of the 600 knew about shooting; and third, the guns owned by the club were not suitable and should be changed.

The Committee decided that an effort should be made to get better guns and train people how to use them. Due to the small amount of interest shown prior to this time, the Management was rather cold to the idea of investing more money in a proposition which had not shown very good results. It was made clear, however, that if there was sufficient interest in shooting our suggestion would be given favorable consideration.

The Committee then decided to try keeping the range open during each lunch period and in the evenings with two of the committee in charge to act as range officers and instructors. Knowing that the majority of the people who came to the range were untrained, we were quite concerned over the factor of safety and immediately adopted the safety rules laid down by The National Rifle Association and proceeded to enforce them. We quickly learned that the original ten men picked for the committee were not

sufficient to handle the amount of work which we had to do and each committee member was asked to pick an assistant and to train him in shooting and the operation of the range. This immediately increased our committee to twenty members and we were able to spread the work in such a way that no hardship was imposed upon any one person. Nor was anyone taken away from his job for an undue length of time. All of the committee meetings were held in the evening after working hours, at which time our business was conducted, after which we proceeded with instruction in the safe operation of a range and in shooting.

Due to limited time and space we were not able to embark upon a very extensive or intensive training program. Then, too, as the average American has done a small amount of shooting it is somewhat difficult to suggest that training might help as you are liable to be told, "Why, I can always hit a tin can or some similar object." By tactful approach and suggestion the committee was able to get a few interested in being trained and as their proficiency increased, others started asking for instruction. Then, too, the instructors soon learned to determine major faults from the shot patterns on the targets, and by concentrating on correcting the greatest fault, could quickly bring rapid improvement.

As a great deal of our shooting was done in the beginning during the lunch periods, it was not possible to have people dress so that they could assume the prone position for training purposes. To offset this we devised a muzzle and elbow rest for beginners. We were amazed at the results this produced. It seems that by shooting from this position complete confidence in the gun can be established and that the beginner quickly grasps the fundamentals of sighting, trigger squeeze and breath control. From here on we were able to progress to prone and other positions. This preliminary training during the noon period soon resulted in the formation of groups for evening shooting. In fact, in some evenings there are two groups using the range at different periods. No distinction was made in the training between men and women employees and before long all were shooting shoulder to shoulder and having a grand time. The training program proved so successful that within a few months 700 people had become members and the attendance at the range ran from four to six hundred per month. With this increase in interest the management purchased six Winchester Model 52 rifles to replace the worn equipment we started with. To give an idea of the amount of shooting done, we purchased and used 160,000 rounds of ammunition during the year. We have our budget set up and approved to purchase six additional rifles during this year.

One of the early recommendations of the committee was that an insurance policy be secured to cover the club in the case of accident and we were able to secure a policy under very favorable terms. As the rifle range is located on Company property this met with instant approval of the management. It was originally planned to cover the cost of the insurance out of (Continued on page 35)



GRAVEL PIT SHOOTERS

By GERALD AVERILL

He oiled his gun and he polished his boots,
And he steered his course for the Auburn shoot.
And he said to the coach: "Jest let me be,
I'm a curly wolf from the Merrimichi;
I'm cocked and primed fit to beat the best,
So sort out some medals to fit my chest."

* * *

When Bullseye tripped to the firing point,
He felt a weakness in every joint.
His vision clouded, his stomach churned,
His feet were cold, and his bowels squirmed.
His knees were shaky, his wrists were weak,
And his voice had shrunk to a rusty squeak.
He dropped his shells and he fumbled his gun;
And he raised his face to the noonday sun:
"Lord, God," said Bullseye, "look down on me,
As lost a sinner as e'er you'll see.
I came to this place a first-class shot,
But look what's happened to Bullseye Potts!"

From "The Sad, Sad Story of Bullseye Potts."

I USED TO LAUGH AT THE GUY who brought in his rifle to me to shoot for grouping, with the explanation that although he was sure hell on a running deer, he couldn't put three shots in a black bull to save his life. The late Ken Lee used to elaborate on the failings of Maine guides along those lines, but I never could figure out why a nice stationary three-inch circle wasn't much easier to deal with than the glimpse of a white flag bobbing over the ridge.

That was before I took up match shooting with the handgun and discovered what a good case of buck fever can do, not only to one man, but to the whole squad. That's another thing I used to sneer at—buck fever. All I ever experienced along that line was, perhaps, a feeling of over-exhilaration, after the buck was down. I realize now just what might happen to a novice viewing his first head of big game over wabbling sights.

Have you ever seen a good, tough, rugged, belligerent, woodsman reduced to such a state of nervousness that it

was impossible for him to trip the trigger? I have, and seen that man return from the firing point with his gun still fully loaded. Such an incident is not only very detrimental to the team-score, but I believe that such an extreme case of the jitters can be communicated to other members of the squad. Why not?

Back in 1917 I saw one of our more delicate brethren faint during inoculation ceremonies, and in a very short space of time thereafter, the sound of heads bouncing off the hardwood floor reminded one of a bowling tournament in full swing. Of course it was a very hot day, and very oppressive in the room. I remember it all very vividly, because I was not far from the head of the line, and when I came to, the second battalion was just beginning to fall.

I am known as one of the most consistent performers on our team, because I can always be counted upon to do the same thing in a pinch. I'll stick four nice ones in the black, and then it's a good safe bet that the fifth shot will be right out where it can be scored from the firing point. Nobody has to coach me into doing that, it's just natural instinct; and when a certain amount of pressure has built up, I can even throw two out of five out without upsetting things unduly. Nobody pays much attention to me, because I'm just plain rotten, and I know it.

Our first match was rather an informal affair, although it was rather important that we win it. We didn't. We had plenty of alibis: sickness, lack of sleep, shooting .38s against Woodsmans; but we lost the match at a time when if each man had shot within fifteen points of his practice average, we would have won, hands down. My first slow fire string was terrible. I started the second with a good ten—and then came the drunk! Of course I shouldn't have noticed him, but he was very fragrantly evident. He parked himself at my right elbow, and at my second shot—a high nine—he announced loudly and truthfully that I was simply awful. "Two shots, an' he ain't even hit the paper! What's 'at guy doin' on a pistol team? Mus' have a pull!"

Well, I printed the next three right where he could see them plain enough, and he retired in confusion.

Down at the other end of the line our latest recruit, a tall, calm individual, tough as a bobcat and twice as healthy, was having a lot of trouble indeed. He was scattering lead all over the landscape, assuring the coach, between shots, that he was doing fine—"Just as steady as a rock." This man can hit a tomcat regularly at fifty yards, and spot his own bullet holes at that distance without optical aid. He never had a touch of the buck before in his life—and what can you do with a man that is shaking in his shoes, *and doesn't know it?*

We will pass over the timed and rapid stages of that match, also the trenchant comments of our coach, who is an Army man; it's all too painful to even think about. Even the veterans fell down, and after seeing the results of the slow fire string, I don't blame them.

Why will a man that is capable of shooting 280 over the Perry course in practice, drop thirty points in a match, just because it is a match? And if such foolishness is not communicative, why will two seasoned shooters on the squad drop way below their own average at the same time?

It looks very much, in our case, as if the addition of new members to the team detracts from the confidence and morale of the regular shooters, who ordinarily can be depended upon. We have some good men, and during the last two years I have watched their averages drop as the others were building up. I know that there are men who can go like a house afire while they are at the head of the list, and begin to break when pushed a little by their own teammates, but I do not feel this to be true in regard to our own outfit.

During the New England Regional, I had a chance to talk with some of our nationally known pistol shots. Al Hemming is one swell guy, who shoots a lot and says little. From what he tells me I gather that the best cure for range shyness is match shooting, and a lot of it. That's all very fine if one can get it, but how much of it does a man need to bring him within a few points of his practice average?

Early in June we will get orders to report for elimination trials. Ninety men will receive notice, and perhaps fifteen ambitious gun-toters will report. Out of those who are willing to shoulder some of the grief, we hope to get a ten man team. Last year we were four men short, which goes to prove that the detail is not considered to be all fun, and that some darn good game shots get nowhere in the tryouts. During July we hope to get a week of training for the state shoot at Auburn, and we may possibly have two or three informal matches beside our annual dog fight with the New Hampshire wardens. By the middle of September we are all done until another spring, for the team members are scattered all over the state, and except in one or two instances, there is no opportunity for indoor competition.

I envy the novice. He has an almost inexhaustible store of instruction to draw from. He buys a gun selected for him by experts, goes through his course of dry shooting, advances thence to live shells in his gun, resorts to the range, and then—championship. Will woods training and environment in any way take the place of shoulder to shoulder shooting, and if so, why will a man in excellent physical condition, hardened to discomfort and a certain amount of danger, find himself reduced to a state of near-imbecility at the prospect of punching holes in a piece of paper with a pistol bullet?

I was told by one shooter at Auburn in 1938 that a man was crazy to go up to the firing line cold, and that half a

glass of 100 proof whiskey would solve all problems. I got either too much or too little; anyway, it didn't work—or maybe it worked overtime, I don't know. Another brother was munching aspirin, and assured me that after a man dosed himself sufficiently with that, he would forget all about the jitters. I ate a generous donation myself, but could notice no marked improvement when my target was scored. I have earnestly striven to fix my mind upon something entirely remote from the match, just before shooting. Something interesting and intriguing. But despite my efforts at concentration, I find myself wondering whether I am going to flub the hammer in rapid fire. And then I usually go and do that very thing.

Now, if this condition applied to myself alone, it would be of little interest to anyone—I'm just another poor dub trying to do something that is probably way beyond my capabilities. But when four *really good* shooters are prone to indulge in an orgy of jitterism, I'd like to get at a possible reason for it.

And just where does the coach fit into the picture, and what is he supposed to do about it? I have just received a courteously caustic letter from our guide and mentor, in reply to a request for different grips for the Match Target Woodsman. Sometimes I have a suspicion that he doesn't like us any more, and I must admit we have given him little cause for affection. As for me, I admire the man because of his self-restraint and the fact that he can absorb so much punishment, especially when there are loaded guns handy. From what I can read of the letter—it having curled and scorched considerably in transit, I learn that he will gladly, and with unbounded enthusiasm, endorse the purchase of any quantity of special grips if they will assist me to becoming even a mediocre pistol shot. All he asks is that I buy the first pair, and put on a convincing demonstration. Very reasonable, I call it.

As I have mentioned before, our coach is a military man, an officer and a gentleman. He is a good instructor and is widely recognized as such. He has the patience of Job and the vocabulary of a mule skinner, and he swears he has never coached a losing team. There are times when words fail him, and I fear for his reason; but he sticks by us, and is firm in his determination to produce a good team or a row of corpses, and I certainly wish him luck.

I like to shoot a pistol, and I do shoot one fairly well. Like others of my kind, I can retire to a gravel pit, and shoot a group that anyone would be proud of. My belt gun takes the place of a rifle, on patrol, and it accounts for a lot of game and vermin in the run of a year. I don't class myself as a novice, by any means, and I'm wondering if there is any real pleasure in bucking something that drains nervous energy until after a day of competition one is left in a state of exhaustion. Is it supposed to be a sport or a serious business; and if it is only a pastime taken too seriously, just how does the ambitious medal-seeker go about adjusting his mental processes to a lighter mood? Maybe we are all trying too hard. Perhaps more of an "I don't care" attitude might relieve the pressure. It may be that we are all temperamentally unsuited for match shooting; which, of course, is entirely within the bounds of reason.

You may think from the above that we are all a bunch of pansies, and in case you have any such delusions, just step down into the old gravel pit, one at a time, and we will shoot you for fun, money, or marbles—one at a time. Just don't let us know that we are in a match.

CAMP PERRY PRELUDE

By JOHN SCOFIELD

CAMP PERRY in its essentials remains pretty much the same year after year. It has always been the place to renew friendships of the game acquired there in seasons past, to relax in an expansive, friendly lethargy broken only by the frequency of the matches one cares to enter, or by the hours one chooses to spend wandering about Commercial Row or discussing the merits of guns and gadgets with the people who make them and the gunners who win matches with them. With all its sameness, the big tournament takes on a different aspect every time, seems a little new, a little different with each firing of the rifle and pistol show that winds up America's outdoor shooting schedule each Autumn. This August the steady climb toward the ideal of a perfect tournament will be no less apparent than it has been in the past.

There will be no radical changes. Perry has been running smoothly too long for many more of them to be necessary. A multitude of small improvements, many of them so slight as to be sensed rather than consciously acknowledged, will serve to change its face a little, to bring it a bit closer to the perfection it deserves as the nation's biggest sporting event, the annual culmination of our country's least spectacular, and yet perhaps most favored sport—burning powder.

The dates: August 18th through September 7th, embrace a full three-week period in which one can do anything from learning the first essentials of trigger squeezing to winning one of the national championship titles itself. The first week will as usual be centered around the popular schools, outdoor classrooms devoted to instruction leading up to the championship matches of the days to follow.

The second week, which in the past has featured all of the N.R.A. matches, both team and individual, will this year be devoted entirely to the individual matches, N.R.A. and National, to the exclusion of all team events. This will allow the unattached shooter to compete in all individual events within a single week. The final period will be given over to the team events.

In the Small Arms Firing School (Sunday, August 18th to Friday, August 23rd) no changes of note have been made, other than the addition of three new matches as a part of the course run for civilian pistol shooters. In addition to the civilian pistol school, the usual senior rifle (basic and advanced), police and increasingly popular junior schools will function during the entire week. The four divisions run currently, so that only a single course may be taken. Nothing is charged for this instruction. The Senior .30 caliber and pistol schools are open to any U. S. citizen over 16 years of age; the Junior School to youngsters 12 through 17, and the Police School to law enforcement officers only. To competitors successfully completing any of these courses, an instructor's certificate will be issued.

Individual .30 caliber matches (Sunday, August 24th through Saturday, August 31st) take up the whole of the second week on the big-bore ranges. In the firing of the N.R.A. individual events, some of America's most venerable trophies will again change hands to add another chapter to their honorable careers: Leech, Wimbledon, Navy

Cup, a host of others, names to conjure with in the growth of the .30 caliber game in America. Additions to the schedule are two matches with Uncle Sam's new semi-automatic, the Garand, to be fired at 200 and 300 yards. Changes in certain other events have been made. The Leech Cup match now calls for 2 sighters and 20 shots for record at 1,000 yards; the Scott match has been changed from 10 to 20 shots at 300 yards and the Coast Guard Cup match is to be fired entirely at 200 yards instead of over the old 200 and 300 yard course.

Winding up the first period of .30 caliber matches will be the National Individual Rifle match, which determines the military rifle championship of the United States. It will be fired over a two day period, August 30th and 31st.

To all N.R.A. members a new National Match Springfield will be issued free of charge, without the necessity of making a deposit. Non-members of the Association may secure rifles by making the necessary deposit. National Match (M-1) ammunition will be issued free of charge.

The big-bore team matches (Monday, September 2nd through Saturday, September 7th) remain much the same as in 1939, with the single addition of a ten-man event with the M-1 (Garand) semi-automatic rifle. Winding up this final week on the mile-long big-bore ranges will be the colorful National Rifle Team match, with squads from all of the services, plus two from each state and territory battling for the service rifle championship of the nation.

On the small bore range (Saturday, August 24th through Saturday, September 2nd): A number of minor changes in award schedules and match courses have been made, and for obvious reasons, the R.W.S. and FIDAC International Matches will not be fired this year. It is expected that the Dewar Match will be contested by at least some of the teams that have fired in past years; the American team in any event will be selected and fire the match. The course of the Lyman trophy doubles event has been reduced to 20 shots per man at 100 yards.

The N.R.A. classification system will of course be in force both here and on the pistol range, and small bore matches have been provided for Expert, Marksman and Sharpshooter classes, in addition to the "Medalist" and "Restricted" events of the 1939 program. A new medal schedule for both pistol and small bore matches will be inaugurated, providing a gold first place medal and four silver medals for high guns in all of the matches, plus five awards in Expert, Sharpshooter and Marksman Divisions.

With the pistol shooters: No changes in the program of handgun matches have been made other than the new award schedule described under small bore events, and the three new matches added to the civilian pistol school, which takes place prior to the firing of the regular pistol matches. Despite the war in Europe, the International Pistol match will be fired as usual. Pistols (.45 caliber) will be issued to all competitors upon payment of a deposit covering the cost of the weapon, and ammunition will be distributed free of charge in all of the .45 caliber events.

How to get there: Transportation to and from Camp Perry rests entirely with the individual. Shooters intending to travel by rail should check with their local agent to

ascertain whether any special summer rates to Cleveland, Toledo or Detroit are in effect. Connections may easily be made for the short trip into Camp Perry.

Where to stay: Accommodations for families, and for shooters not connected with any of the state or service teams, may as usual be had in "Squaw Camp" if reservations are made quickly enough. These should not be sent to the N.R.A., but should be addressed to the Manager, Club House, Camp Perry, Ohio. Tents in Squaw Camp will be available at the low rate of \$1.50 per night for either one or two persons, with an additional charge of 15 cents for each person in excess of two, assigned to the same tent. It should be noted that Squaw Camp facilities may be limited this year, so shooters should not depend on securing a tent on arrival in Camp, without having made reservations prior to leaving. Inexpensive lodging may of course be secured in nearby Port Clinton by those able to commute to and from Camp in their own cars. Competitors attending without families may obtain living quarters within the "Competitors' Area" without charge.

Programs are ready for distribution, and may be obtained without cost from the N.R.A. Simply address a postcard to The National Rifle Association, 1600 Rhode Island Avenue, Washington, D. C.

PARSON BYROADE'S SERMON

(Continued from page 7)

shootin' light," he thought, as he brought them on the target. His hard right hand, strong enough to crack a bone, closed ever so gently. A long slash of livid flame spurted, and the crash of the heavy rifle broke the awful silence. The white, sweating figure at the stake jerked once, and sank quietly upon the bonds that held it there.

The Ranger waited a moment to be sure.

"That's the best I could do for ye, George", he said, "an' you're most welcome!"

Then he was up, rifle in one hand and bare knife in the other, running for his very life to reach the gate before the lurkers in the corn could cut him off. He heard yells and whoops of rage behind him, and another bedlam from the darkness on his right. That would be the corn field crowd. A musket flared from the wall of the tiny fortress, a brief flame to guide him. The springing tendrils of William Prescott's red kidney beans crackled about his ankles. The howling on his right sounded louder, and a shadow, stinking of grease and skunk, leaped up behind a levelled musket which missed fire most conveniently when its clumsy hammer fell with a lifeless cluck. Simon thrust at the shadow, and felt the blade of the knife go home. He ran on. The yelling stopped the way a wolf pack silences when it's closing for the kill. Simon raised his shout "I'm a-comin'!" and without slacking pace rushed straight at the gate, which opened when he was a scant two steps from collision with it. He entered, and the speed of his coming carried him half across the open space in front of the cabins before he could check and turn to give a hand to the men who were struggling to close the gate against the weight of a half-dozen Indians. It lacked but a foot of closing, but there it hung, half a ton of iron-studded oak, yielding gently an inch or two one way or the other as the opposing pressures upon its sides waxed or waned. Runners from the cornfield, defiant of the few shots that came from the palisade, were reinforcing the assault faster than the defenders could drop from the walls

to throw their weight into the struggle. There was no sound but the harsh breathing of men. Inch by inch the barricade moved inward. Simon was on the point of shouting an order to let go all holds and take them as they came, when the Reverend Byroade stepped briskly past the heaving mass, shoved the flaring muzzle of his blunderbuss slantwise into the widening crevice, and pulled whatever it was on it that answered for a trigger on a real gun. The wheel of the ancient lock snarled, a bright spurt of sparks flew, and the scene was lit by a levin flash as three ounces of lead swept bloody way. Simon and William Prescott stooped in the smoke to shove certain encumbrances from the foot of the gate, and closed it, dropping the bars into place. Parson Byroade, vague of wit, with singed eyebrows and steeped in sulphurous odors, was nursing his right arm with his left hand, while he poked aimlessly about trying to find his empty blunderbuss.

He was still so lame and sore in the morning that he scarcely could get out of bed, but, groaning, he managed it, and groaning, he made his way to the bench and tore the Sunday sermon to shreds. Back in bed again he felt easier in his mind and began running over Scriptural passages fit for a funeral sermon celebrating the indomitable, indestructible, triumphant spirit of man.

SINGLE-SHOT RIFLES

(Continued from page 13)

plate, like that on Rider actions (excepting that four short retaining screws were used instead of two long ones). The side lever was liked because it, with whatever looseness it possessed, did not have to be held during the trigger-squeezing process.

As P. H. Manly pointed out in his excellent April, 1938 RIFLEMAN article, the lowered side lever does not project below the trigger guard, making the rifle easy to store or carry with the action open, and permitting easy manipulation in the prone position. In the crowded gun cabinet, however, the side-lever thumb-piece may ride hard upon the next gun.

The short, vertically rising and falling breech block fits its supporting recess with remarkable tightness, lacks any rocking motion or pronounced incline to give it much seating power, and is substantially supported against discharge stresses by very short side walls rendered adequate by the stepped construction of the breech block. No link couples the finger lever to the breech block; hence the breech block is readily removed for cleaning by releasing a retaining screw similar to that employed on Farquharson actions, but superior because it operates through more supporting metal.

The firing pin strikes the primer at a 30-degree angle, is retracted by an encircling spring, and is not supported against the primer by the hammer, which automatically rebounds into the safety-notch position. Remingtons made smaller firing pins for this rifle in their high-powered model firing the .30-30, .30-40, .32-40 H. P., and .38-55 H. P. cartridges. These combined firing-pin details do not exemplify what we consider the very best design, but are dependable enough provided one has a firing pin small enough and well bushed enough for cartridge pressures used.

The hammer, with but .6" fall, is, as Manly pointed out, desirably positioned directly above the trigger, and despite its considerable mass within the action, strikes a quick blow.

The trigger pulls on the four Hepburns I have owned, and many that I have seen, have been noticeably good.

The extractor, pivoted on the left forward guard screw, is cammed open by a projection on the finger-lever rocker, and gives powerful extraction considering the short length of the side lever. The flat, sharply doubled spring holding the finger lever (and hence the action) open or shut, is powerful enough to give the extractor quite a kick as it opens, acting as an ejector unless one supports the finger lever as it is depressed.

This spring is the weakest part of the Hepburn action. I have had two broken ones, and find that no more are available at the factory; so I designed and had made a simple base and coil-spring-operated plunger which makes a good repair, promises to endure long, but is not quite broad enough to serve as efficiently in ejection as does the original flat spring.

The Hepburn receiver ring holds a threaded barrel shank .97" in diameter, enabling it to carry barrels heavy enough to hold any cartridges its firing-pin combination can safely fire.

Hepburns were made with either double set or single triggers, and with either straight or pistol grips, although the latter seemed the more common. One Schuetzen target model was made with under lever and breech block designed to provide better seating. The drop on comb and butt on the cheaper models was too great for the average man to hold well, but better stocks can be fitted to the actions. Provision is made for mortising the buttstock into the action, and enough metal is present in the action and guard plate to permit filing square the rounded inner corners of the action against which the buttstock fits, thus removing stock spreading tendencies.

In dismounting the Hepburn, the forearm should be removed and the small screw securing the breech-block rocker to the side lever removed before attempting to drive out the side-lever axle to the right.

The Hepburn is inferior to the Remington-Rider in feeding the chamber under a low-mounted scope. In gas disposition I have found it superior, for the tightly fitted breech block permits the gas to go only upward. Both actions were made of splendid materials, carefully fitted, and well hardened.

RIFLE-SHOOTING

(Continued from page 30)

income but the management volunteered to pay the cost of the premium. One of the provisions of the policy is that by the payment of a small additional fee we can secure coverage in a like amount whenever one of our teams visits another club. This means that members of our club are covered by insurance at all times.

It wasn't long before discussion arose about match shooting and some consideration was given to going into outside competition. After some thought we decided that as we had 700 shooters in our own organization it might be well to hold a number of local matches to determine just how good we were before entering outside competition. We were also somewhat concerned with the problem of avoiding the old mistake of having all of the prizes go to the few best shooters. In order to avoid this we decided that in the first few matches we would use the Lewis handicap system and award prizes by classes. This proved

very satisfying and produced good results. We have since been able to engage in scratch and kickers' handicap matches; however, in all of these we retained the class system feature and distributed prizes on this basis. We have never held any sort of a match within our own club where less than fifty members participated. As time went on we have been in contact with various other industrial teams and there is a possibility that an industrial league will be formed. However, we are not so much concerned about this as we feel that with 700 people to draw from we can hold all the matches we are able to handle. Nevertheless, we make it a practice to shoot friendly matches with various local clubs so that our members may have an opportunity to get acquainted with them and to join these clubs as they become more interested and want to extend their shooting to other than straight gallery work.

This club has proven satisfactory both from an employee and employer standpoint. It has furnished diversion to many people who are unable to engage in the more strenuous sports. It has given an opportunity for younger men to demonstrate their ability to organize and supervise an activity, which might not be presented on the individual job they were doing. It has promoted better feeling toward the management as a very keen interest was taken by the management in the activity. One of the executives of the company, to encourage shooting, made a standing offer of a medal to any member who, during the course of a year would turn in ten five-bull targets with a score of sixteen or better on each bull, shot in the offhand position. This had amazing results in improving the offhand shooting of a great number of the members, and to date, ten medals have been awarded. It is planned to extend this practice to other shooting positions and perpetuate the idea.

The outstanding feature in the success of this club has been the courteous consideration that each of the committee members gives to the new shooters. The policy has been adopted that any one desiring instruction may receive it and it has been quite surprising how well this has taken. It has resulted in a growing attendance at the range and a remarkable increase in skill. While we have not relaxed in the observance of safety rules there is a considerable difference in the feeling the range officers have while on duty. The tension has been reduced considerably as we now feel that most of those shooting are capable of handling a gun in a safe manner. To give an idea of the increase in skill of the shooters during the year, we were able to qualify 62 people as marksmen or better over the Government "G" course with D.C.M. ammunition. We believe that this is probably as large a group as was ever qualified in any one year by a civilian club.

In closing, we wish to urge that the various industrial organizations throughout the United States encourage this type of activity as a part of their recreational program. We want to call to the attention of the shooter that it will require more effort on his part than on the part of the management. It is very easy for the management to provide facilities for shooting but it takes a genuine interest on the part of the shooter and a certain amount of unselfishness to give up his time to operate a range and to furnish instruction and encouragement to the beginner. There is no reason why rifle shooting should not become a very popular sport in connection with recreational activities of industrial organizations and we believe that if a policy of cooperation and helpfulness to the other fellow is adopted, both management and employee will be well gratified with the results obtained.

OVER THE NEWS DESK

RUSSELL LENT JOINS N. R. A. STAFF

J. Russell Lent joins the National Headquarters Staff of the N. R. A. on July first. He will take charge of the work involving the organization of senior clubs, and of assisting already existing clubs to develop better facilities and stronger organizations.

"Russ" Lent is particularly qualified to take over his new duties by reason of his first-hand experience as a club member and organizer and officer of various clubs and leagues during the past decade. In 1928, he was working on a newspaper in Milford, Connecticut, when a rifle club was organized in that city. Russ joined up as one of the charter members, and later that year was elected Secretary of the Wepawaug Rifle Club. By attending matches in various parts of the state as a member of the Wepawaug team, Russ became interested in the question. "What makes a rifle match tick?" and according to his statement, from then on found that he "was in for some sort of a job in all state matches, as well as those of our club."

Later he assisted in the organization of a league in Milford, and was elected an officer in that league in 1934. He was elected First Vice-president of the Connecticut State Rifle & Revolver Association, and in 1936 was elected President. Since 1935 he has worked in one capacity or another in the matches at Camp Ritchie, Maryland, and in 1938 was elected Vice-president of the Eastern Small Bore Association. In 1939, he was elected President of that organization. In the same year he became a Director of the National Rifle Association, and in February 1940 was elected to the N. R. A. Executive Committee. During the period from 1936 to 1940 he found time to serve as Secretary of the Nutmeg Rifle League, in addition to organizing both junior and senior rifle clubs in the New England area. Russ states that his biggest thrill in the shooting game probably came at Camp Ritchie in 1934 when he managed to beat both Thurman Randle and Eric Johnson in a match—one of the few shooting medals that he has had the opportunity to win.

Russ estimates that during the past four years he has averaged four nights a week and forty-five Sundays a year at a rifle match or rifle meeting of some description. Although most of his life has been spent in Connecticut, he is actually a son of the Empire State, having been born in Crugers, N. Y.

Rogers to Handle Juniors

C. R. "Dick" Rogers has been given charge of the Junior Club organization and extension activities at National Headquarters. He was assistant to the late H. H. Goebel, and prior

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NEW TROPHIES

VII. The Clarke Memorial Medal

One of the best known and best liked shooting trophies is the Colonel Gillard H. Clarke Memorial Trophy, which was modeled by Jack Lambert in 1928 and was cast under the supervision of the National Rifle Association.

This famous trophy is a bronze statue of a duellist of the period when all arguments between gentlemen were settled in the early dawn in man-to-man combat.



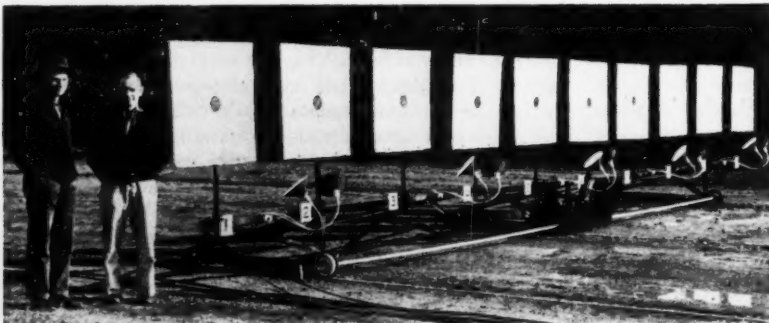
The new medal design features a replica of the erect figure of the duellist flanked by two American eagles mounted on a combination pedestal. Encircling the head of the shooter is a laurel wreath symbolic of victory.

At the present time this trophy is held by that ace marksman of the Los Angeles Police Department, Emmett Jones, who in 1939 fired a record-breaking score of 291 x 300.

A NEAT TARGET SYSTEM

The Fort Wayne, Indiana, members of the Fraternal Order of Police find that pistol practice is more fun than ever before. The reason is the new equipment developed by Charles Eby and his mechanically-minded son. It is similar to the carrier system of the Flamingo Club in Coral Gables in that it brings the target to the shooter when his string is finished—but it introduces another innovation in the form of lighting equipment mounted on the moving carrier to make the range useable after dark. It uses a 3/4 H. P. motor to operate the 10-target carrier and a 1/2 H. P. motor to turn the targets. Motors are 220 volts, lights are 110 volts.

The Ebys, father and son, and their travelling target system. (Second column)



TIMED FIRE with Bill Shadel

Portland, Oregon—Out here with our shooting friends of the Northwest, God's country as they call it (and we're inclined to agree with them) we've found a wave of interest among old-timers and tyros. Harvey Scofield, Washington state president . . . Camp Perry veteran . . . charter member of the Tacoma Club (incorporated in 1907) . . . came out here from Maine in 1891 . . . travels about 30,000 miles a year in and around Northwest shooting circles, entirely on his own, just because he wants to promote the game. As a host he's tops. Set us up to our first taste of Olympic oysters—in cocktail, and fried . . . a real treat. Then there's Gairie Upshaw at Eugene, Oregon, 1931 Pershing team member and one-time finest of the field . . . gone to coaching . . . organized a club of 86 members since February. Showed us a league set-up within the club, sponsored and supported by merchants . . . eight teams of four each that have things in Eugene humming. Believes he has the first Radio match for the West Coach in his club vs. Oregon University girls team. Guy Jones at Portland, outstanding off-hand expert, strangely enough the manufacturer and distributor of fishing tackle . . . Offered to demonstrate one of his intriguing new spinners in some of these blue lakes and streams but we were too taken up with his personally conducted tour of Mt. Hood and Bonneville Dam. . . Max Page, hard-working state president for Oregon, a meticulous and actually laboring executive officer of the Regional small bore.

* * *

At Butte, Montana, we learned how off-hand shots are developed. . . Saw the huge stoves to warm their backs as they open up the front of the enclosed firing points in dead winter . . . then shoot off-hand at 100 yards. In Denver, secretary Bill Jacobs rounded up representatives of Colorado state's three divisions for a meeting. The Cheyenne, Wyoming, matches changed to July 4-7 have a real shooting fan as head. Major Russell, who's planning every detail for enjoyment by the civilian competitors.

* * *

At Kellogg, Idaho, for the Inland Empire 22nd annual matches, C. J. Wescott of Boise, shooting only a year, surprised all the lads as well as himself by taking the grand aggregate . . . plenty of shooting in that section. Ed McGoldrick, executive officer, tells of 57 teams firing in the gallery season. . . Next year the outdoor matches are to be open to all-comers, registered, and sponsored by the re-affiliated Inland Empire Association.

* * *

From the home office: Letters trickling in continue to swell the progress report on the publicity some of our live wire clubs are getting via radio and newspapers . . . Clyde Brown, lawyer-shooter in Hot Springs, Arkansas, tells us of increased activity in his club as a direct result of letting the townspeople know what goes on through the local papers . . . and from the University of Minnesota: radio time given on "The Champ of the Week" program, WCCO's sports show, to Guy Gosewisch, Golden Bullet winner. . . The Muscatine (Iowa) Rifle Club is another outfit taking full advantage of radio possibilities.

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TOURNAMENT REVIEWS

MEDFORD (ORE.) SMALL BORE TOURNAMENT

This was the third successful year for the Medford Rifle Club small bore tournament, held May 25th and 26th at Medford, Oregon, in the heart of the Rogue River Valley, famous alike for its fighting steelhead trout and luscious pears. But trout and pears had no part in the events programmed for the two days of small bore matches indulged in by some forty trigger-twisters from various parts of Oregon and California.

N. R. A. averages were used in classifying competitors into Expert, Sharpshooter and Marksman, the Master and Tyros being merged with the Experts and Marksman. Six registered events and two special events, an 11-Carton and an offhand, comprised the two-day program.

Paul Dodge led off in the 100 yard any with 400 and 20x's closely followed by Mrs. Ivan Waddell with 399 and 23x's. For the Sharpshooters, Ed Lull turned in a 398-28x total, and posted scores of 397-25x and 394-21x for first and second in the marksman class.

In the 50 yard any, Mrs. Waddell moved up to first with 400-29x, and Ivan Waddell came in second with 400-27x. Ed Lull and John Silva went 399-22x and 398-25x for the Sharpshooters, and scores of 397-20x and 395-21x won for Marksmen George Reavis and Burt Ennis.

In the Buddy Dewar, any sights, Nash and Deter from Yreka (Cal.), called the turn by totaling 796-49x for the Experts; Lew Conger and Ed Lull of the Medford club, high sharpshooters with 792-40x. E. D. Everson and A. C. Aikins from Eugene, Oregon, topped the Marksmen with 787-39x. This match was not included in the aggregate.

The second day of firing opened with Ivan Waddell taking advantage of the Creedmoor system to outrank R. E. Perkins of Fresno (Cal.), both turning in 393's in the 50 Meter Metallic. Bruce Smith of Grants Pass and Mrs. Emilia Tuttle of the Medford Club were one-two in the Sharpshooter class with 391 and 388 respectively. Aikins was high again for the Marksmen with 389, closely followed by G. W. Jones with 388.

It was the metallic Dewar that hinted of the close finish for grand aggregate honors, when Paul Dodge's 398-22x was posted for first. R. E. Perkins was second again with 394-23x. Sharpshooter winners were Mrs. Tuttle and Frank Victorine, 395-16x and 391-18x. Jones' and Everson's scores were 394-19x and 395-15x for first and second Marksmen.

Last match in the aggregate, the 50 yard metallic, found the heat really on: both the Waddells down eighteen points; Dodge down nineteen and Perkins ready to climb aboard if anyone slipped. The Waddells kept it even by dropping three apiece, while Dodge lost four, but Orin Deter of Yreka made the top spot with 399-25x, and Perkins second with 398-17x. Sharpshooters Hendricks and Silva were high with 396-19x and 395-15x. Almost duplicate scores won for Marksmen Engles and J. Jones, 396-19x and 395-19x.

The aggregates were posted almost as soon as the bulletin board mathematicians had things figured out. Ivan Waddell took the grand aggregate with 1979-87x, barely outranking Mrs. Waddell (a matter of four x's), and in third place was Paul Dodge, Yreka gunsmith, with 1977-87x. Mrs. Tuttle led the Sharpshooters decisively, 1971-79x, while Bruce Smith ranked second with 1958-82x, and Aikins placed second with 1945-59x.

Competent officials, favorable weather and an attractive range made the Medford Tournament another success, and we will greet old friends and new again in 1941.

SOUTHERN NEW JERSEY SMALL BORE CHAMPIONSHIPS

Leslie Currie of Plainfield, N. J., turned out to be the number one entry in the Southern New Jersey Small Bore Championships, fired at Haddonfield, May 19th, as he went straight through the shooting and captured the hotly contested title. Pushing him every step of the way was Mark Gwilliam of Bloomfield who took second place in the aggregate, followed closely by Turk Samsoe, Edward Watson and Dick Berlin. Harry Mason of Ventnor shot into sixth place and thereby captured the regional trophy that was presented to the highest of the South Jersey shooters.

Currie and Gwilliam again fought it out in the Dewar match when they placed one-two with J. Kolbus of Perth Amboy getting in the medals for third place and Jack Banks, only one point behind, taking fourth place. In the any sight match Francis O'Hare placed first with a 399 while the next three men, all with 397's, were George Hess, 27x's, Joseph Andreoli, 22x's and Samsoe, 20x's. In the Expert match Currie again came through for a win but this time followed by Howard Courtney of Bernardsville, N. J., with Gwilliam in third place and James Gleason of Philadelphia in fourth spot.

In the Junior class Fred Welsford of Philadelphia almost made a clean sweep when he captured the Junior medals in the Dewar, and any sight matches. William Wait, 3rd, also of Philadelphia, took the Junior medal in the expert match with a score of 183. That score also placed him fourteenth in ranking with the senior shooters. Thelma Cornell took the women's award with a fortieth place in the Dewar Match and then repeated the performance when she came to the any sight match. In the last event Irene Shible also received a bronze medal by virtue of her score, tying Mrs. Shible's score but with two less x's. Both of these Lakewood women are devotees of the shooting game. Their husbands were also in the match but the women brought home the majority of the medals.

Lakewood took home further honors when Alvin Ferber proceeded to shoot some good targets in the 200-yard reentry event in spite of a tricky wind, to place first and take most of the cash while William Wait, Jr., of Philadelphia, and John Upperman of South Amboy, N. J., followed in order.

This was the first Class C Registered Match in the state of New Jersey, and in addition it was a sanctioned match under the regulations of the New Jersey Association of Rifle and Pistol Clubs. From the enthusiastic response of the shooters it is evident that they like registered matches and will shoot when they are run well and the prizes are adequate. The New Jersey Association presented the Southern New Jersey Championship Trophy while the Hutton Hill Club presented the Regional Plaque.—JOHN G. HUBBARD.

MID-WEST SMALL BORE MATCHES

For the fifth consecutive year, the reputation of the Mid-West Small Bore Tournament, staged at Lafayette, Indiana, on the 19th of May, came through to supply rain in plentiful quantities, threatening to drown out the hardy souls attending. In spite of an early morning deluge seventy-two shooters put in an appearance, and bucked rain, which finally let up, and wind, which didn't, through all of the events. The first match, a "no sighter" affair, went to Lee Sadler of Danville, with only four points lost to the wind hazard. It goes to prove perhaps that all of the time spent sighting in is not quite as necessary as we all have thought. Scores

failed to show any marked difference in the following matches.

There never has been a Dewar possible shot on the Mid-West range since the matches started in 1935. This year was no exception, though under the conditions it was hardly expected. Cora Converse of Chicago topped the 53 entries with a 24X-394, proving that those who know the wind still will win matches. Mrs. Converse continued her steady performance to take the 100 yard any sight with a 21X-395, a 393 in the 50 meter iron for second place, slipped to an 11X-393 in the final 50 yard any sight match and wound up for the day with 1575 x 1600 to take the aggregate, followed by Arthur Blocker of Elkhart with 1566, Frank Russell of Clayton with 1565, George Child of Gary with 1563 and Arthur Dean of Chicago with 1562.

Back again to defend his 1939 winnings came the greatly handicapped marvel Francis Lewis, of Springfield, Ohio. Not until the 50 yard any sight match was posted did he find the going to his liking, and turned in the only possible of the day's shooting—21X-400. Most men wouldn't try to overcome the handicaps he endures so courageously.

While the scores may not look good in the national ratings it does stand that there are plenty of shooters who will risk bad scores when the conditions are tough simply because they like to shoot. The management of the Mid-West Tournament is confident that had weather conditions been fair the total registrations would have been well over the 100 mark. Shooting is growing in Indiana and the Mid-West has had a lot to do with that growth. Look for the 6th Annual Mid-West to be scheduled about the same time in 1941.—JOHN F. HOLMES.

HUDSON VALLEY SMALL BORE TOURNAMENT

L. M. Temple of Scarsdale won the Hudson Valley Small Bore rifle championship with a score of 581 out of a possible 600 in the 10th annual Hudson Valley Small Bore championship matches held at the Poughkeepsie Rifle Club range on May 11th and 12th. Temple scored his 581 in the fifth match of the Sunday schedule and added a 379 in the Poughkeepsie Rifle Club Dewar later, to compile the high aggregate of those two matches. His was the top score of the day as he had an aggregate of 960 of a possible 1000. G. W. Welsh, Schenectady, had the only perfect score of the day as he shot a 400 x 400 in the any sight Dewar on Saturday. He was closely pressed by Jack Lacy, New Haven, Conn., and Ernest Pade, Sellersville, Pa., both of whom shot 398's in the same match. Lacy's 199 x 200 was next high for the weekend as he scored in the preliminary Wimbledon, coming in one point ahead of Ernest Pade. Lacy compiled the high aggregate of the any sight Dewar and the preliminary Wimbledon as he scored a 597 x 600, with Pade close behind with a 596.

In Saturday's matches Pade won the first match with a 397 x 400; Welsh's perfect score gave him a win in the second, and Lacy's 199 was tops for the third. Lacy's high aggregate concluded Saturday's matches. Temple won the valley championship, Lacy checked in with a 391 in the Poughkeepsie Rifle Club Dewar, and Pade won the Hudson Valley Wimbledon with a 189 x 200.—Poughkeepsie Star-Enterprise.

DERBY RIFLE TOURNAMENT AT LOUISVILLE

Louisville's first registered small bore tournament was held on May 5, 1940, the day following the famous "Kentucky Derby". Many of the would-be competitors must have been afraid of hitting a horse, as only a select group of 37 riflemen showed up for the five-match schedule.

In the first event, Dewar Course, metallic sights, Earl M. Saunders, the pride of Louisville and the only local shooter to sport an International Team brassard, won with a 397 and 20 X's. This was "right smart of a score", what with the way the wind was cutting up. John R. Moore of Mt. Healthy, Ohio, who came down to chaperone Bill Sayrs, the N. R. A. referee, grabbed second with a 396 and 20 X's, and Lee Sadler of Danville, Indiana, snared third place medal with a 395 and 19 X's. Match two, twenty at fifty yards with scopes, for them that had 'em, fell to Moore with a 198-16 X score, with Leo Durbin, New Albany, Indiana, second with four fewer X's, and Frank Russell, Plainfield, Indiana, third with 198 and 10 X's. In the 100 yard any sight event Jim Ratliff of Edwardsville, Indiana, out-guessed a pesky wind to deliver a 199 with 11 X's to take first place, with John Schmidt of Bedford, Indiana, and Frank Eith, one of the local boys, coming into second and third positions with 197 and 11 X's and 197 and 9 X's.

Match number four, an aggregate of the two any sight events, which amounted to a Dewar Course, was taken by Jim Ratliff's 396 and 22 X total, with Moore's 393 and 22 X's good for second place. The aggregate of matches one, two and three went to Moore without much argument on a total of 789, while Earl Saunders came into second position with 787, and Melvin Parker of Louisville turned in a 783 tally for third place.

ALBERT LEA (MINN.) SMALLBORE TOURNAMENT

Albert Lea's first attempt at a registered match evidently was a success. The day started with a light rain and heavy wind which, no doubt, kept away several shooters. Nevertheless, the registrations ran well over fifty competitors. All matches were fired on schedule and everyone seemed very pleased with the new range and the way the match was conducted.

It was up to Mrs. John Cole of Minneapolis (one of the country's best woman shooters) to set the pace for the men. Mrs. Cole captured top place in the Aggregate with a neat 1191, also taking first in the Dewar with 397, and 50 Meter with 197, second in the Any Sight Dewar with a 400 and third in the 100 yard Any Sight with 197. Charles Jacobson, Minneapolis, won the Dewar Any Sight with a 400-30x. First in the 100 yard Any Sight was Gilbert Johnson Van Meter, Iowa, with 199. This took care of the expert class.

In the restricted class, Maurice Deaver, Richland Center, Wisconsin, ranked first in the Aggregate with 1183, also winning the Dewar Any Sight with 398 and second in the 100 yard Any Sight with 196. Right on his heels was Presley Ogren, young sharpshooter from Mason City, Iowa, winning the 50 Meter with 198 and the Dewar with 395, ending up second in the Aggregate: 1176. Marvin Davidson, another Iowa shooter, won the 100 yard Any Sight with 197.

The tournament was supervised by our good friend and capable helper, F. A. Moulton, while Sgt. K. E. Cruse of the University of Minnesota served as referee, which fully explains why Albert Lea's first registered match was a success.—ART M. JENSON.

IOWA STATE SMALL BORE

Charles Kautz, veteran sharpshooter of Muscatine, Iowa, captured the first section of the Iowa State Rifle Association's small bore tournament at Camp Dodge, fired May 26th. Kautz won the 50 yard Iron Sight match with a perfect score, and took third places in two other of the events to score a total of 1575 to pace the field, winning the M. R. Davidson trophy.

Stanley Fogle, Downing, Missouri, was right on Kautz's heels with an aggregate tally

of 1573. Fogle scored a first and second, but faded in the 100 yard Metallic event to place ninth in the final reckoning. Next in line was Robert Kadgihn, Iowa U. star and holder of one of this year's Golden Bullets. Kadgihn finished first in the Dewar, and landed another third and seventh place to gain third position in the aggregate standings. In all of the events, high three were awarded place medals and there were in addition, medals for high Sharpshooter, Marksman, Junior and Tyro competitor.

PENDLETON (ORE.) SMALL BORE TOURNAMENT

The Pendleton Rifle Club's small bore tournament, fired Sunday, May 5th, attracted thirty-seven enthusiastic marksmen who fired through the five event program. Ernest Barrein, Portland star, who placed second in the Expert Class of the Far-Northwest regional matches last year, dominated the show at Pendleton when he topped 34 aggregate contestants with a 1583 tally, outdistancing second place winner, J. A. Wade, Boise, by four points. In the Marksman Class, another Boise shooter, C. J. Westcott, led the field, scoring 1567 to beat out C. Smutz, La Grande, Oregon, who totaled 1565. Among the Marksmen, Leslie St. Clair, Gresham, Oregon, led with 1530, against 1512 turned in by second placing R. W. Simpson, a local contestant.

In the opening foray of the meet over the Dewar Course, Barrein swung into his campaign with a 392 and 18X's to lead R. Shaw of Boise by a five-X margin. In the Sharpshooter division, Smutz triumphed with 389 and 16, and Simpson scored a 375 and 5 X's to lead the Marksmen. Barrein lost the pace for a time in the 100 yard Any Sight event when Fred Frederiksen, Bend, Oregon, out-X'ed him to the tune of 395 and 20, against Barrein's 395 and 18 X's. Smutz continued to lead the Sharpshooters, scoring 392, and H. Townsend of Gresham won in the Marksman class, scoring 384.

The 50 meter Any Sight match fell to Barrein on a score of 398, with J. A. Wade of Boise pushing him with a 396. Among the Sharpshooters, W. Homan, Enterprise, Oregon, led with 394 and Les St. Clair (Sr.) landed in high Marksman spot with 391. Wade came into top spot in the 50 yard Any Sight affair with a possible and 30 X's, while Barrein fell to fourth spot, out-scored by Wade, Greer and Frederiksen. Westcott paced the Sharpshooters again, and Townsend topped in the Marksman division.

PORTLAND (ORE.) SMALL BORE TOURNAMENT

The state range at Clackamas, which later was host to the Pacific Northwestern regional rifle matches, warmed up on May 12th with the registered small bore tournament of the Portland Rifle Club, now in its second year. Weather smiled on the sponsors with sunlight throughout the day, though the meet was not without wind to add a hazard to the course.

Ernest Barrein, fresh from his clean-up of the matches at Pendleton, proceeded to add another to his string of victories by taking first place in the aggregate of the individual events, running up a 984 total. L. A. Swem landed in second position with 971. In the Expert division Mrs. Ivan Waddell led with 978, with husband Ivan two points below her in second place. H. Jones paced the Sharpshooters with 981.

In the initial match of the program, 50 meter Metallic Sights, Swem came in ahead with 197, topping Barrein's score by a two point margin. Among the Experts, Mrs. Waddell took home a medal for her 196, and H. Jones' 199 was good for top spot in the Sharpshooter class. B. Berg won out over

the Marksmen with 197, and Tyro T. W. Thorington took a medal with his 191. In the Dewar event Barrein got into the swing of things and led the pack home with 394 and 18 X's. Ivan Waddell topped the Experts with 392 and H. Jones' 398 was good enough to pace the Sharpshooters. C. F. Lucas scored 383 to take the Marksman medal, and C. Houser led the Tyros with 372. It was Barrein again in the Any Sight Dewar, as he won out over 60 contenders with a 395 and 24 X's. Mrs. Waddell continued her lead of the Expert shooters with 392, and H. Jones won out in the Sharpshooter Class with 393. Marksman W. G. Reavis won in his class with 387 and among the Tyros, Houser again led with a 384.

A two-man team event fell before the combined onslaught of Swem and Barrein, who scored 396 over the 100 yard course, with Les St. Clair and Guy Jones tagging along in second place with 394. The Waddells, Mr. and Mrs., cleaned house in the Expert class with their 393 and the combine of P. Ulrich and Zola Plogz led the Sharpshooters. C. F. Lucas and C. A. Lewis came out on top in the Marksman division, and Tyros Edwards and Houser came in with 384.

NON-REGISTERED EVENTS

OKLAHOMA—State Association .30 Caliber Matches. A fortunate turn of weather conditions made possible a smoothly run and enthusiastically attended tournament over the first and second of June at Wetumka, when the Oklahoma State Rifle Association .30 caliber matches and Camp Perry team selections were staged. The opening match of the schedule, offhand at 200 yards with any rifle, fired on the 50 yard Standard American pistol target, fell to Ernest Fuller of Enid, who scored an 82 to snare first place medal. The Berry Match, Army offhand on the standard 200 yard target, went to Curtis Williams of Stillwater, with a score of 92. The Army Rifle Championship, 10 shots at 300, slow-fire prone, went to Richard Dunlap of Sapulpa when he turned in a new state record of a possible with 14 additional bulls. Over the 600 yard course, Ray Whitaker of Tulsa turned in a score of 97 with 11 V's to take the Keotah Trophy, and in the service rifle section Ralph Newman of Stillwater chalked up a 97 and 7 V's to take first place position. The Bausch and Lomb Trophy, contested over the 1,000 yard course with any rifles, went to Homer McDaniel of Enid with a 97, while the service rifle division went to Elmer Ward of Okmulgee with a 92.

The first of Sunday's events, for the Enid Rifle Club Trophy, was won by Bill Peters of Durant with a 95 over the 200 and 600 yard prone course, and the Will Rogers Trophy went to Jess Berger of Drumright, who scored 93 over the 1,000 yard service rifle course. Charles Armour of Little Rock topped the field in the Anderson match with a 97 for the 200-300 rapid fire course. The important aggregates fell to John Blankenship's consistent performance, with 421 in the Oklahoma Championship match and 280 topping in the service rifle aggregate. The free rifle aggregate went to Homer McDaniel.—R. A. McGoon.

TENNESSEE—Small Bore Tournament at Knoxville. A gallery of at least 150 spectators and only 32 competitors was one of the odd results chalked up to the generally disagreeable and rainy weather that attended the firing of the Volunteer Rifle and Pistol Club's small bore shoot at Knoxville on May 26th. A man-and-wife combination, Fred and Alice Molt of Asheville, dominated the shoot by taking exactly fifty percent of the

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first and second place awards. The balance of the medals were divided up between S. M. Ledbetter, R. A. Monroe, Frank Brown and C. S. Marsh. Not to anyone's great surprise, Fred Molt took top place in the aggregate, with Monroe and J. D. Barr in place and show positions. In all, competitors attended from five states, a splendid showing for the club's first open shoot.—C. E. BURKHART.

VERMONT—State .30 Caliber Matches. Judging from attendance records big bore rifle shooting is growing in popularity in Vermont and the 68 shooters who gathered at Northfield on Sunday, May 26, to take part in the annual Vermont state big bore rifle matches set a new attendance record for this event.

The military shooters showed their superiority in the .30 caliber matches and in an unclassified event the civilian shooters would have been badly out of luck in the aggregate. Clayton Rogers of Milton, a member of one of the National Guard units in Burlington, was top in the military class and also successfully defended his title of Vermont State Champion with his score of 234. George Goodhue of Claremont took the high civilian medal with a score of 225.

With medals to high military and high civilian shooter in each stage the honors were a bit more evenly divided. Ellsworth Royce of Montpelier took high military medal in the 200 yard slow-fire stage with a 48 and Goodhue's 47 was high for the civilians. Ray Hewitt of Fair Haven took the civilian medal in the rapid fire stage with a 93 while Corp. Richard Hazel of Troop A, 3rd Cavalry from Fort Ethan Allen topped the military shooters with a 92. Shooting buddies Fred Waite of Northfield Falls and Everett Tucker of Montpelier divided the two medals in the 300 yard slow-fire stage. They fired identical scores of 49 but Waite was penalized a point for not using service sights and had to take second place for high military medal. Clayton Rogers had high score for the 600 yard stage, a 49, for high military medal while George Goodhue led the civilians with a 46.

Charles Stockwell of East Concord, won the "Any Rifle" aggregate with a 237, the highest score ever posted at one of these matches. This is Stockwell's second year of big bore rifle competition. He took the rapid-fire stage with a 95, which has been fired only once before at the matches and the 200 yard slow-fire stage with a 47. Laurence Moore of Gilman, a club mate of Stockwell's, was runner-up with the same score that won him the match last year, a 231. Moore took the 300 yard slow-fire stage with a possible 50 and the 600 yard stage with a 49. Edgar Allen of Essex Junction won the Surprise Fire match with a 44 with Laurence Moore runner-up in a match that he won last year.

With only 11 targets available it took from 8:30 A. M. until nearly 8:00 P. M. to complete the matches. Especially commendable under these conditions was the fine handling of the range by chief range officer Major Warren B. Steele and even more so the work of the pit detail from Co. F, Northfield, who gave excellent target operation throughout the long hard day.—P. H. TEACHOUT.

WASHINGTON—Capitol Pistol League Matches. The first outdoor match of the 1940 season was held May 12th on the Butte creek range at Raymond, Washington. A beautifully cloudless, though windy day saw 36 competitors on the firing line. Honors for the day were divided evenly between eight shooters in the expert class. The rivalry was no less keen in the Tyro class where seven different shooters won medals in this group. In the first event, 20 shots slow-fire at 50 yards, Clifford Smith of Willapa Harbor won with a 183. The .22 caliber National Match

Course went to Harvey O'Brien, Seattle Police, with a 288 and the .22 Camp Perry Course was won by Glen Gibbs of Willapa Harbor with 294.

The Captain J. J. Haag Buddy Match, a two-man team event over the .22 caliber Camp Perry Course, with the team made up of one Tyro and one Expert, saw the best battle of the day. Glen Gibbs and Edith Buchanan shot 573 only to find that a two-man team from Arizona and Seattle, A. G. Snyder and C. A. Sundt had posted the same score. "Where is that score sheet. What did you get in rapid fire?" A big smile from Gibbs and Buchanan. Rapid fire 190. Snyder and Sundt rapid fire 189. Sorry folks, nice going anyway.

The 4-man team match over the .22 Camp Perry course saw the Capitol Pistol Club's red team of Gibbs, Smith, Edwards, and Eaton shoot a team total of 1151 to nose out the Capitol Pistol Club blues and the U. S. S. Tennessee teams. The .38 caliber national match course results showed J. E. Steele and Harvey O'Brien of the Seattle Police Department taking first and second place respectively. Winning score, 282.

The 45 Caliber Camp Perry Course found A. G. Snyder again with a 280 and a newcomer, R. M. Anderson of the Seattle Police Department in second place.

The Grand Aggregate went to A. G. Snyder of Arizona who shot consistently in every match, not too high but never too low to come out with a 5 point lead over Harvey O'Brien.

NEW MEXICO—Coronado Cup Match—New Mexico Riflemen competed on May 12th in the annual firing of the "Coronado Cup Match" conducted by the New Mexico Rifle and Pistol Association. The match consisted of ten shots slow-fire military standing and ten shots rapid-fire sitting at 200 yards and twenty shots slow-fire prone at 600 yards. The New Mexico Military Institute team was high in the match with a score of 925. They were followed by the Santa Fe Rifle Club team with a score of 903, and the Duke City Rifle Association team, which had won the match each year for the past four years, in third place with 892.

High individuals in the match were: W. H. Elridge, N. M. M. I., 189; Ed. O. Harrington, Alamogordo, 187; L. D. Wilson, Santa Fe, 186; J. E. Stephenson, Santa Fe, 185. H. E. Caldwell, Albuquerque, 185.—L. D. WILSON.

NEW JERSEY—Wilburtha Pistol Tournament—Leading a field of 82 teams representing nine states, the Pennsylvania Motor Police pistol team took the New Jersey State Police Trophy at the Fifteenth Annual Interstate Inter-Collegiate Pistol Matches, fired at the Wilburtha Range on Saturday, May 25th, 1940. The Camp Perry Police course was introduced this year to replace the old Army "L" used heretofore at Wilburtha.

The winning team, captained by Major Thomas F. Martin in the absence of Major Jake Mauk, was led by Sergeant Thomas E. Jones with a 297, Corporal W. B. Kunkle—292; Corporal Tom Eshelman—291, and Private Bruce Burtner—284.

Adolph Schuber's New York City Police Team number one trailed the Pennsylvania troopers with 1149, with West Virginia State Police winning third place trophy and medals with 1139. Other teams in order of finish were New York City Police number two, 1132; Philadelphia Police, 1132; Pennsylvania Motor Police number two, 1129; Lower Merion Township Police (Pa.), 1129; Michigan State Police, 1128; Massachusetts State Police 1119; Metropolitan Police, Washington, D. C., 1116.

This year's tournament began on Friday, May 24th, with a National Individual Match instead of the usual day set aside for visiting team practice. Corporal Lew Emrick, West

Virginia State Police, took the trophy and target gun for his event with a 91-98-96 for a total of 285, followed by Sergeant Tom Jones, Pennsylvania Motor Police with a 284, and Patrolman Harold Voebel, New York City Police with 281. With 192 individual entries including nine women, various prizes and medals were distributed in Class A and B, with special awards going to high prison guard, municipal policeman, state trooper, bank guard, military or naval. The trophy for high lady was won by Mrs. Mildred McCarthy, Allenhurst Beach Club, Allenhurst, N. J. with a 256.

A new fifty-yard range, plus 20 modern targets, beautifully landscaped and set off by the familiar Log Cabin at the State Police Training School, together with the nationally recognized Standard American target materially aided in adding Wilburtha to the roster of leading pistol events of the year. Colonel Mark O. Kimberling, superintendent of State Police, and a familiar figure at Camp Perry before the World War, announced at the end of the matches that the Wilburtha shoot will be held as usual in 1941.

NEW JERSEY—Rockview Pistol Tournament. The Philadelphia Police pistol team won their second leg on the Harold G. Hoffman Team Trophy when they topped the official bulletin at the end of the second day's shooting at the Fourth Annual Rock View Pistol Matches, fired at Montague, New Jersey, on May 17th, 18th and 19th. Competing against 44 leading teams from New York, New Jersey, Pennsylvania, and Delaware, the Philadelphia quartet repeated their 1938 win with a score of 1130 over the Camp Perry police course on the Standard American target. Individual honors for the day were taken by Patrolman Anthony Cutillo, New York Port Authority police, with a 290 to win a target gun and gold medal. Miss Florence Ingram of Philadelphia, civilian shooter, won the ladies award with 265.

This year's program, prepared and directed by Bill Lewis of Trenton, and sponsored by Miss Louise Reinhardt, owner and manager of the Rock View House, began on Friday afternoon with a limited center-fire re-entry taken by 1st Sergeant L. C. Salz, New Jersey State Police, with a 293, and closely followed by Patrolman John "Dusty" Rhoads, of Philadelphia, 292, and Detective William Lewis, New Jersey Troopers, with a 289.

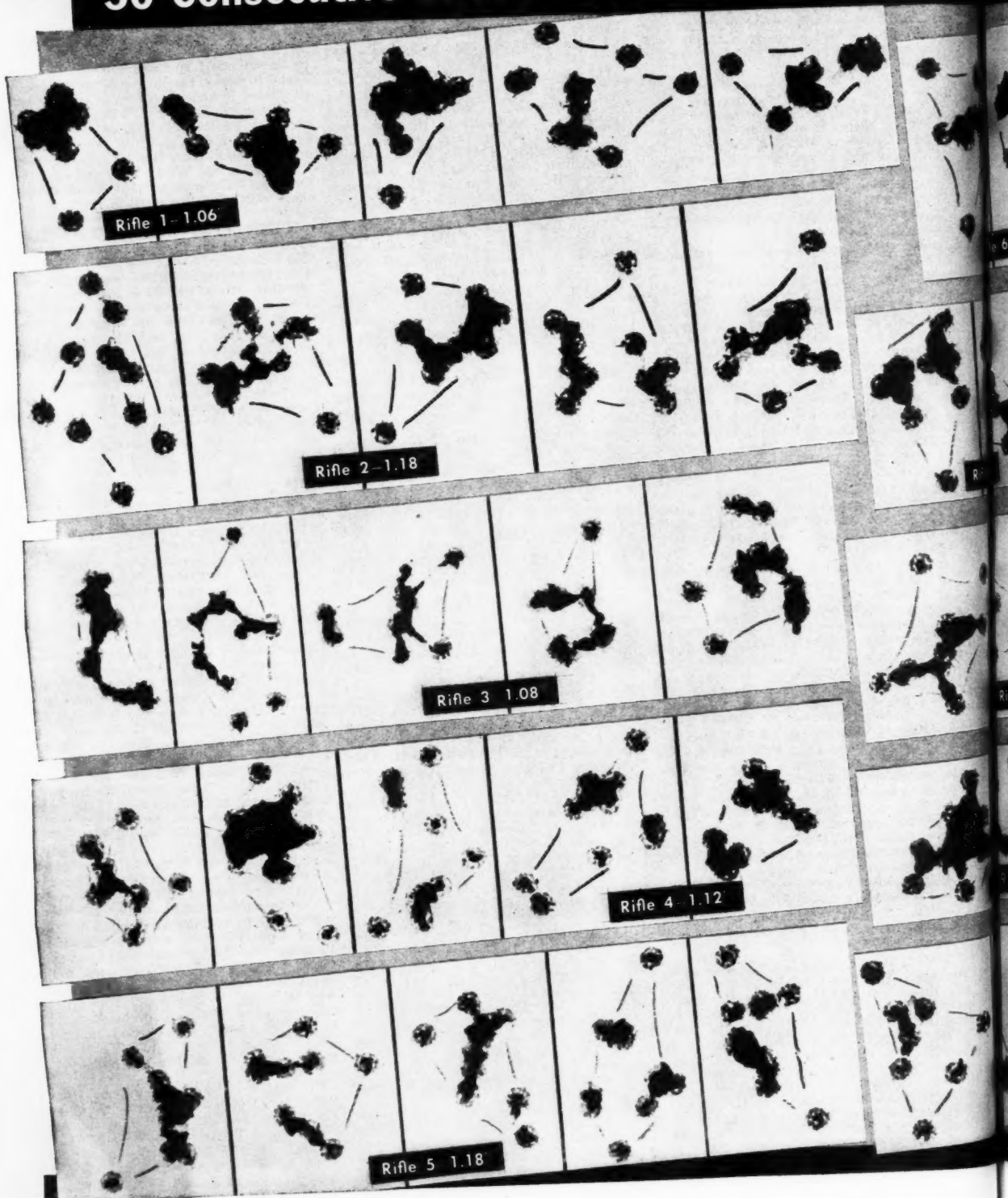
Sunday's .22 caliber and center-fire events, coupled with an aggregate, attracted 85 competitors from New Jersey and its neighbor states and was won by Patrolman John Comiskey, Lower Merion Township Pennsylvania Police, with a 572, followed in turn by H. V. Noble, Erlton, N. J. and Bill Lewis of Trenton. Mrs. Noble captured the ladies medal in the aggregate, outshooting more than 50% of her male rivals.

With 45 team entries and 425 individual competitors for the three-day tournament it is apparent that the Army "L" target shooters in this area are definitely swinging over to the more difficult and nationally recognized Standard American target. Bill Lewis' Citizens' Club matches at Trenton last autumn were the opening wedge in a campaign to bring into the fold the large number of teams and individuals in New Jersey, southern New York, and eastern Pennsylvania who still clung to the World War type of target primarily designed for quick training of raw troops with the .45 Colt automatic. This year's matches will in all probability see the last of the old five-inch bulls-eye.

FLORIDA—The American Legion Junior Rifle Club Match, conducted by the American Legion, Florida Department, on April 27th at the St. Petersburg convention, brought together 59 youngsters and ten five-man teams representing eight Legion posts. Al-

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50 Consecutive Shots—100 Yds., Machine Res



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IN choosing your ammunition to use in the National Small Bore Rifle Matches—and in important tournaments held meanwhile—your own tests may be affected by adverse weather and your own shooting condition. Therefore, to assist you in your appraisal of the current loading of Winchester EZXS, Winchester presents here the significant results of a 500-shot machine rest test made to show the phenomenal accuracy and uniformity of these cartridges.

Ten boxes of currently loaded Winchester EZXS were taken at random from stock freshly received from the Loading Department, and for firing them 10 Winchester Model 52 Heavy Barrel Target Rifles were taken at random from stock.

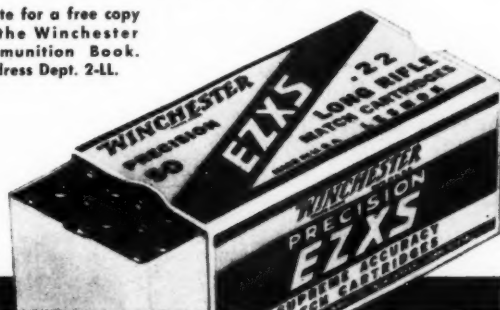
The test was conducted under the regular Winchester heavy barrel target rifle and match cartridge testing conditions—machine rest, 100 yards, indoor range. The test was run off continuously. Fifty consecutive shots were fired from each of the 10 rifles.

The targets are reproduced herewith, in their actual size, exactly as made by the 10 rifles. Ten shots were fired for each group. In measuring groups, diameters were taken from center to center of the widest bullet holes. The average diameter for the 5 groups of 10 shots made with each rifle is given. Total average diameter for the 500 shots with these 10 rifles was 1.07".

This extensive and impartial test, expertly conducted for you by Winchester, definitely proves to you the superb accuracy, with equal uniformity and dependability, that are yours in the current loading of Winchester EZXS. Adding to that the well-known EZXS wind-bucking superiority gives you the ideal target cartridge. Place your order now with your dealer, for a supply of the latest Winchester EZXS (HS-39-) to carry you through the season and the National Matches at Camp Perry.

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though this is primarily a character building program, with emphasis on discipline, sportsmanship and team work, the scores showed that our young people can shoot with traditional accuracy.

The five-man team match was won by St. Petersburg with a score of 785; West Palm Beach took second place with 770, and the South Jacksonville S.A.L. Post No. 88 won third place medals with 767. The individual championship, an aggregate of the scores in the three individual events, went to Bill Le Master of West Palm Beach, who scored a total of 269 over the three position course.

ILLINOIS—Chicago Heights Police Shoot. Clear skies with a slight breeze greeted the gang as they assembled in and around the office and firing line for the opening match of the second annual Chicago Heights Police Shoot, fired May 11th and 12th. Unfortunately, it started to blow shortly after and the wind lasted during both Saturday and Sunday. A large group of contestants from the entire Chicago area and immediate vicinity registered and fired their matches despite the unfavorable conditions, thus proving beyond question that the real sportsman lives his pleasure. Both civilian and police matched their individual and team efforts in an attempt to break record scores. Six paper matches and two police matches made up the shoot and aggregate trophies were presented to George Brunner of South Chicago, A. L. Dudleston of Chicago Heights and Chris Kalapis of Decatur in the order listed. The Police Trophy was presented to the Chicago Heights Team, composed of J. Constable, N. Lacheta, S. Jarecki and W. Kwiatkowski. Plans are now being formed to hold another shoot later in the season, if possible under N. R. A. supervision, and until such time the Police Department of Chicago Heights wishes to thank all of those who entered the matches, and by their efforts made the shoot a success.—JOHN R. CONSTABLE.

ILLINOIS—American Police Revolver League Matches. Arriving fresh from the pistol campaign in Missouri, smiling Frank McBride of the Denver, Colorado, Police Department took just about everything but the firing tables the first two days of the American Police Revolver League matches at Chicago, and what was left of the range was taken to Port Huron, Michigan by Chris Boylboll of the United States Customs Department. It was McBride again to start the Sunday events in the .45 caliber aggregate, but when it came to the special .22 caliber and center-fire matches a few of the local lads decided they'd had enough of this "Mick from the West," and proceeded to take him. It was "Bill" Frey of the Chicago U. S. Treasury Department in the special .22 caliber 20 shot slow-fire and the .22 caliber Camp Perry Police Course. In this, "Bill" was ably assisted and abetted by "Kelly" Kelchauer of the A. P. R. L. and Joe Clegg of the LaGrange, Illinois, Police Department. In the special .22 caliber Clegg threw McBride for a four point loss and the American Police Course was a photo finish between McBride and Clegg, the Mick taking this one by a hair. Van Buren, Iverson, Moss and Freitag of the Chicago Post Office are going to make some mighty keen competition at the local matches this year. This is a team that "will carry the mail" in many of the coming events.—FRANK J. MCCOY.

WISCONSIN—Pistol Matches at Madison. The second annual "Little World's Championship" pistol matches, sponsored by the American Legion Rifle & Pistol Club, Madison, Wisconsin, April 21, drew a record of 57 entries, with the states of Illinois, Iowa and Minnesota represented. H. J. Netik, Watertown, Wisconsin, who in 1939 made a clean sweep of the trophies in all events, was

again the big winner, taking the Governor Heil trophy in the National Match Course event, and the *Wildlife* magazine trophy in the aggregate. He failed to repeat in the 30-shot slow-fire match, the Felton trophy going to S. J. Iverson of Chicago.

The University of Wisconsin team, coached by Major Clarence Strike, made a very good showing, taking eight of the twenty-seven medals. George Dawe, a freshman, finished second to Netik over the National Match course. The aggregate was a free-for-all affair and not decided until the last relay was in. Netik winning with 524 x 600, nosing out George Weir of the Rockford, Illinois police, and Frank Van Buren of Chicago by two points.

Plans are already being made for registering next year's matches and making them one of the biggest indoor pistol matches in the middle west.—C. W. ALBRECHT.

CALIFORNIA—Gridley Club's Field Day Shoot. With the morning of April 7th, anything but promising for the firing of the 4th Annual Field Day Shoot and the directors of the club wondering if the match should be postponed a week, 81 riflemen from throughout Northern California were converging on Gridley, despite the weather's threat. This match has become one of the outstanding events in Northern California and is the only one where .22 rifle, both in 4 position and straight prone, .22 and .38 pistol along with the Police Course are fired. All rifle matches were unsquaded so shooters fired as they saw fit. This way the standings in the different matches changed fast. All riflemen were classified in Expert and Sharpshooter divisions with a separate Junior Division.

Winners of the several matches are as follows: Four position 25 yards, Expert Division, O. Deter of Yreka, 197; Sharpshooter Division, J. Postle of Sacramento, 199; Junior Division, R. Fieth, 184. Dewar Match, Expert Division, R. Perkins of Fresno, 400 27x; Sharpshooter Division, F. Darrow of Mare Island, 396; High Junior, Bill Lear, 396 19x (this was Bill's first big time individual match and his Dad, Sam, was about as proud of this score as of his own 399); 100 yard scope: Fred Emery of Grass Valley turned in a 200 with 17x's, including a 10x possible. Sharpshooter Division, F. Darrow of Mare Island, 199 13x; High Junior, I. Irving of Vallejo, 198 7x. Prone Aggregate, Sam Lear, 599; Sharpshooter Division, F. Darrow of Mare Island, 595; High Junior, I. Irving, 591.

The Field Day Championship made up of the 4-position 25 yard match, Dewar and the 100 yard scope event went to O. Deter of Yreka with the splendid score of 791. Deter was awarded the D. W. Brady Trophy. Sharpshooter Division, Ray Miner, 768; High Junior, I. Irving, 772.

The Tyros had the inning in a 50-yard scope match. C. Hendricks of the Yreka Club took first with the only 200. P. Bender of Sacramento was second with 199, Bob Hennessee of Berkeley, third, with 197; E. Verous, Jr., was High Junior with 197. Throughout the day the off-hand riflemen were trying to out-guess the wind in a 25-yard off-hand re-entry match using the 50-yard 2-bull target. Elwin Mulcahy of Grass Valley, after seeing the trophy for this match, decided he needed it for his collection and proceeded to hang up a 99 7x for the boys to shoot at.

The team match, fired at 25 yards in four positions, found 6 teams on the firing line. The local boys decided if they wanted a share of the prizes that were rapidly leaving town they had better do it now, so they buckled down to a team score of 924. Individual scores on the winning team were H. Fieth 190, Bob Hennessee 187, R. Fieth 184, C. Ullom 182, M. Rhodes 181. This team had one Junior Rifleman and two graduate Juniors.

COMING EVENTS

Northwestern Regional Tournament. Orders for troop maneuvers in the Middle West have made it necessary to advance the dates for the Northwestern Regional Rifle and Pistol Tournament. This tournament is now scheduled for the period of July 4th to 7th, inclusive, at the same location as first announced, Fort Frances E. Warren, Cheyenne, Wyoming.

Southeastern Regional. It has proved impossible to establish a 1940 Southeastern Regional Small Bore Rifle Tournament. Therefore, competitors who are residents of the Southeastern Region (described in detail in May 1940 AMERICAN RIFLEMAN) are privileged to compete in any of the other Regional Rifle Tournaments held this year and will be eligible for Regional awards including the trips to Camp Perry for the National Matches. As with all other competitors they may compete in only one Regional Tournament.

Alabama

July 6 & 7: Alabama Big Bore Rifle Matches, Birmingham. Sponsored by Alabama State Rifle Association. Write J. P. Prince, 1852 Princeton Avenue, Birmingham.

California

July 7: Oakland Police Pistol Tournament, Oakland. Write C. A. Hatch, 2251 42nd Avenue, Oakland.

C July 7: 3rd Annual Semana Nautica Small Bore Rifle Tournament, Santa Barbara. Write Captain J. W. Baldwin, 116 Bath Street, Santa Barbara.

C July 21: Southern California Revolver League, Glendale. Write J. E. Cornell, 662 Arden Avenue, Glendale.

B July 27 & 28: California State Pistol Tournament, Glendale. Write L. A. Pope, 532 Oakford Drive, Los Angeles.

C* July 28: Tri-League Rifle Tournament, Sacramento. Write E. L. Bryant, 2642 32nd Street, Sacramento.

July 28: Western Revolver Association Pistol Tournament, Alameda. Write Captain J. W. Strohm, 2247 Central Avenue, Alameda.

B August 2-3-4: 6th Southwest International Pistol Matches, San Diego. Write R. S. Pease, Route 3, Box 84, San Diego.

Delaware

B August 3 & 4: Delaware Tidewaters Rifle Tournament, Wilmington. Write Floyd C. Wince, P. O. Box 302, Wilmington.

District of Columbia

C* July 14: National Capital Pistol Tournament, Washington. Write Tom Arnold, 7 McCreary Street, Hyattsville, Maryland.

Florida

C* July 14: Florida West Coast Pistol League Monthly Tournament, Tampa. Write Alice E. Jefferson, 104 East Flora, Tampa.

Illinois

July 7: State .30 Caliber Championships, Fort Sheridan. Write Michael Gawron, 3434 North Avers Avenue, Chicago.

C July 13 & 14: Blackhawk Rifle Club Small Bore Tournament, La Grange. Write Mrs. E. J. Roth, 2110 Marshall Boulevard, Chicago.

July 14: Outdoor Pistol Match, La Grange. Write Henry Ernst, 4300 Drexel, La Grange.

July 14: Department of Illinois Championship .30 Caliber Rifle and Pistol Matches, Fort Sheridan. Louis Carlson, 2036 N. Kildare Ave., Chicago.

July 21: .30 Caliber Matches, Fort Sheridan, Illinois. Write Michael Gawron, 3434 North Avers Avenue, Chicago.

C July 21: Illinois Rifle Association Small Bore Matches, Fort Sheridan. Write Michael Gawron, 3434 North Avers Avenue, Chicago.

C July 21: Illini Summer Pistol Tournament, Champaign. Write P. E. Hotchkiss, 804 West Healy, Champaign.

C* July 28: Rockford Mid-Summer Rifle Tournament, Rockford. Write Doctor S. A. Oren, 2308 Douglas Street, Rockford.

July 28: .30 Caliber Matches, Fort Sheridan. Write Michael Gawron, 3434 North Avers Avenue, Chicago.

C* August 4: Hyde Park Pistol Tournament, Chicago. Write John P. May, 7001 South Loomis Boulevard, Chicago.

August 11: .30 Caliber Matches, Ft. Sheridan. Louis Carlson, 2036 N. Kildare Ave., Chicago.

Indiana

C July 14: Muncie Rifle Club Summer Tournament, Muncie. Write J. W. Heffner, 207 Neely Avenue, Muncie.

July 19-20-21: Indiana .30 Caliber Rifle & Pistol Matches, Frankfort. Write Basil Middleton, R. F. D. No. 1, Culver.

August 4: Wabash Valley Championship Rifle Tournament, Terre Haute. Write W. E. Danner, 2325 North 11th Street, Terre Haute.

August 4: Mid-West Pistol Shoot, Lafayette. Write W. F. Matthews, Lafayette.

Iowa

July 7: Iowa Civilian Team Tryouts, Des Moines. Write G. G. Cooper, 816 Telephone Building, Des Moines.

C* July 21: Marshalltown Rifle Tournament, Marshalltown. Write Gerry Morrison, 607 Fremont, Marshalltown.

B August 4: Iowa State Rifle Association Pistol Tournament, Des Moines. Write G. G. Cooper, 816 Telephone Building, Des Moines.

B* September 29: North Iowa Pistol Tournament, Mason City. Write Don Wells, Box 262, Mason City.

Kentucky

July 7: Kentucky Civilian Team Tryouts, Fort Knox. Write Harry J. Hopkins, 1506 South Fourth Street, Louisville.

Maryland

A* July 3 to 7: Eastern Regional Small Bore Rifle & Pistol Tournament, Camp Ritchie. Write Tom Davis, 60 Warren Street, New York City.

July 14: Maryland .30 Caliber Rifle Matches and Camp Perry Team Tryouts, Camp Ritchie. Write Lieutenant John Golden, Cumberland.

C* July 28: Free State Pistol Tournament, Baltimore. Write T. R. Penn, 4027 Roland Avenue, Baltimore.

August 11: Free State Rifle Tournament, Baltimore. Write T. R. Penn, 4027 Roland Avenue, Baltimore.

B September 21 & 22: Maryland Rifle & Pistol Tournament, Camp Ritchie. Write T. R. Penn, 4027 Roland Avenue, Baltimore.

Massachusetts

July 4: Independence Day Shoot, West Concord. Write D. J. Hardesty, Middlesex Rifle Club, Maynard.

July 13 & 14: Connecticut Valley Tournament, Ludlow. Write Harold V. Lovett, 290 Goodwin Street, Indian Orchard.

A* July 20 & 21: Northeastern Regional Pistol Tournament, Springfield. Sponsored by East Longmeadow Gun Club. Write Louis J. Deitz, 1214 Main Street, Springfield.

July 20 to 28: United Services of New England Matches, Wakefield.

Michigan

B* July 6 & 7: Michigan Small Bore Rifle Tournament, Lansing. Write Harold Headley, 131 Hubbard Street, Battle Creek.

C July 7: Central Michigan Pistol Tournament, Jackson. Write C. W. Easton, 1901 Cortland Avenue, Jackson.

C* July 14: Midsummer Rifle Tournament, Flint. Write Kenneth Gilman, 311 East Wood Street, Flint.

C* July 21: Midsummer Pistol Tournament, Flint. Write Kenneth Gilman, 311 East Wood Street, Flint.

July 29 & 30: Second Annual Summer Camp Rifle Championship of Michigan. Write W. D. Smith, Camp Al-Gon-Quian, Burt Lake.

C September 22: Autumn Pistol Match, Southern Michigan Pistol League, Jackson. Write R. V. Gray, P. O. Box 275, Jackson.

Minnesota

C July 20 & 21: Minnesota-Arrowhead Small Bore Tournament, Virginia. Write Andrew Bradish, Virginia.

July 24: First Annual Mid-West Summer Camp Rifle Tournament, Lake Hubert. Write R. C. Wilson, Camp Lincoln, Lake Hubert.

C August 4: Arrowhead Outdoor Pistol Tournament, Virginia. Write Andrew Bradish, Virginia.

Mississippi

July 4-5: State Civilian Team Tryouts, Camp Shelby. Write Walter E. Price, Jr., Clinton.

Missouri

B* July 20 & 21: Missouri Small Bore Rifle Tournament, St. Charles. Write R. H. Dorian, 5516 Cates Avenue, St. Louis.

Montana

C July 7: The Opening Anaconda Rifle Tournament, Anaconda. Write W. A. Traner, 2 Chestnut Street, Anaconda.

July 14: Gallatin Valley Association of Rifle Clubs Small Bore Match, Karsts Kamp. Write W. C. Papke, Bozeman.

July 19 to 21: Montana Rifle Association State Elimination Matches, Butte. Write Carl E. Maguir, Hamilton.

C August 10 & 11: The Anaconda Summer Rifle Tournament, Anaconda. Write W. A. Traner, 2 Chestnut Street, Anaconda.

Nebraska

July 7: Nebraska Civilian Big Bore Camp Perry Tryout, North Platte. Write J. B. Crawford, 2655 St. Marys Avenue, Omaha.

B July 14: Nebraska Small Bore Rifle & Pistol Tournament, Omaha. Write J. B. Crawford, 2655 St. Marys Avenue, Omaha.

B July 27 & 28: Corn States Pistol Tournament, Omaha. Write J. B. Crawford, 2655 St. Marys Avenue, Omaha.

New Jersey

July 20: State Civilian Team Tryouts, Sea Girt. Write Clifford D. Haines, 22 South Rosborough Avenue, Ventnor City.

July 28: New Jersey State Association Pistol Tournament, Plainfield. Write Carl E. Kastner, 18 Cherry Place, Maplewood.

C August 11: Somerset County Small Bore Championships, Somerville. Write W. W. Goldsack, 215 E. Cliff St., Somerville.

New Mexico

August 4: Small Bore Rifle Tournament, Clovis. Write D. L. Smith, P. O. Box 905, Santa Fe.

New York

B* July 13-14: Annual Pistol Tournament, Roslyn, Long Island. Write S. E. Ellis, 26 Kennworth Road, Port Washington, Long Island.

C* July 14: Annual Buffalo Niagara Frontier Outdoor Rifle Tournament, Buffalo. Write D. B. Hilliker, 1255 Niagara Street, Buffalo.

C July 20 & 21: Western New York Pistol Tournament, Buffalo. Write George B. Young, 270 Delaware Avenue, Buffalo.

July 24: Tercentenary Pistol Shoot, Southampton. Write J. Quinlan, Secretary, Southampton, L. I.

B July 27 & 28: Southern Tier Small Bore Tournament, Elmira. Write W. G. Allen, 106 Larchmond Road, Elmira.

C August 3 & 4: Poughkeepsie All Range Tournament, Poughkeepsie. Write Charles H. Smith, P. O. Box 1009, Poughkeepsie.

August 11: .30 Caliber Long Range Matches, Albany. Write Arthur Jones, 9 Manning Square, Albany.

Ohio

C July 6 & 7: Independence Day Week-end Rifle Tournament, New Philadelphia. Write Warren H. Tonkin, 933 West High Avenue, New Philadelphia.

C July 14: Ohio Valley Pistol Tournament, Chillicothe. Write Wilby F. Anderson, Box 469, Chillicothe.

B* July 21: Ohio Pistol Tournament, Dayton. Write Miles E. Goll, 119 Forest Avenue, Dayton.

B July 27 & 28: Zeppelin Small Bore Rifle Tournament, Akron. Write Tom Weaver, 1585 Englewood Avenue, Akron.

C* August 3 & 4: Ohio Team Matches, Mt. Gilead. Write Miles E. Goll, 119 Forest Avenue, Dayton.

B August 10 & 11: Annual Fort Harmar Rifle Tournament, Marietta. Write H. W. Meiser, 621 7th Street, Marietta.

AA* August 18 to September 7: National Matches, Camp Perry, Ohio. Write National Rifle Association, 1600 Rhode Island Avenue, N. W., Washington, D. C.

B* September 28 & 29: Akron Open Pistol Tournament, Akron. Write J. C. Kelsey, 133 Highpoint Avenue, Akron.

Oklahoma

B* September 28 & 29: Oklahoma Rifle Tournament, Tulsa. Write R. A. McGoon, Box 1063, Enid.

Oregon

C* July 7: Clatsop County Club's Rifle Tournament, Warrenton. Write Leslie T. St. Clair, Gresham.

C July 7: Small Bore Rifle Tournament, Astoria. Write W. R. Rowland, 566 Kensington, Astoria.

July 7: .30 Caliber Matches, Bend. Write Emory Gardner, Bend.

B July 20 & 21: Oregon Pistol Tournament, Clackamas. Write Leslie T. St. Clair, Gresham.

July 20 & 21: Oregon .30 Caliber Rifle Matches, Clackamas. Write Leslie T. St. Clair, Gresham.

July 27 & 28: Oregon Civilian Camp Perry Tryouts, Clackamas. Write Leslie T. St. Clair, Gresham.

C August 4: Andy Findlay Memorial Small Bore Rifle Tournament, Clackamas. Write Ralph F. Pride, Route 9, Box 273 K, Portland.

Pennsylvania

C* July 14: Allegheny Valley Rifle League Tournament, Kittanning. Write James Affleck, Box 2038, Pittsburgh.

B July 20 & 21: Vandergrift Small Bore Rifle Tournament, Vandergrift. Write R. M. Walbeck, 245 Sherman Avenue, Vandergrift.

C July 28: York Rifle Tournament, York. Write R. O. Wildman, Mt. Wolf, York County.

July 28: Civilian Pistol Team Tryouts (supplementary to those at Indiantown Gap), Scully Range, Pittsburgh. Write Horace E. Matters, 1003 Union Trust Bldg., Pittsburgh.

July 28: Mid-Summer Rifle Tournament, Allentown. Write A. M. Newhard, 111 East Susquehanna Street, Allentown.

August 3 & 4: Pennsylvania Rifle Tournament, Indiantown Gap. Write Frank Hoppe, 2321 North Eighth Street, Philadelphia.

C August 4: Cumberland Valley Pistol Tournament, Chambersburg. Write J. H. Linn, 232 Lincoln Way, East, Chambersburg.

C* August 11: Allegheny Valley Rifle Tournament, Tarentum. Write James Affleck, Box 2038, Pittsburgh.

South Carolina

July 4: Annual Rifle Tournament, Greenville. Write L. W. Bolt, 1415 Laurens Road, Greenville.

Tennessee

July 13 & 14: Tennessee State Civilian Team Tryout and .30 Caliber Rifle Matches, Knoxville. Write C. E. Burkhardt, R. D. No. 1, Knoxville.

B* July 21: Tennessee Pistol Tournament, Nashville. Write J. R. Shackleford, Jr., 502 Jackson Building, Nashville.

Texas

C* July 7: Galveston Island Tournament, Galveston. Write Rudolph Newman, P. O. Box 262, Galveston.

C July 13 & 14: West Texas Pistol Tournament, El Paso. Write Allen Weissinger, 917 Montana Street, El Paso.

B* September 21 & 22: Southwestern Rifle Tournament, Dallas. Write V. A. Moore, 208 North Akard Street, Dallas.

Vermont

B* July 20 & 21: Vermont Small Bore Tournament, Northfield. Write P. H. Teachout, Underhill Center.

Virginia

C* July 20 & 21: Cavalier Pistol Tournament, Richmond. Write Barney Gray, 2216 Stuart Avenue, Richmond.

B* September 14 & 15: Cavalier Small Bore Tournament, Richmond. Write C. H. West, Jr., 1602 Confederate Avenue, Richmond.

Washington

July 5-7: State .30 Caliber Matches and Civilian Team Tryouts, Fort Lewis. Write Lt. Col. I. W. Kenney, Fort Lewis.

A* July 12-14: Pacific Northwest Regional Pistol Tournament, Seattle. Sponsored by Northwest International Pistol and Revolver Association. Write Grace M. Carveth, 2348 42nd, North, Seattle.

West Virginia

C July 13 & 14: Fort Boreman Small Bore Rifle Tournament, Parkersburg. Write R. A. Sampson, 1407 Spring Street, Parkersburg.

July 14: Ohio Valley Small Bore Rifle Tournament, Wheeling. Write V. F. Tidrick, 1212 Pearl Street, Martins Ferry.

Wisconsin

July 14: Land of Blackhawk Pistol Matches, Janesville. Write Clinton Casberg, c/o Police Department, Janesville.

C July 28: Viroqua-Westby Rifle Club Small Bore Tournament, Westby. Write Henry A. Nerison, Westby.

C July 28: Wisconsin V. F. W. Rifle Tournament, Racine. Write Oliver Moody, 5527 N. 35th St., Milwaukee.

August 4: Big Bore Rifle Matches, Fond du Lac. Write Clarence F. Hill, 106 Hamilton Place, Fond du Lac.

B* August 10 & 11: Wisconsin Small Bore Tournament, County Line Range. Write Oliver Moddy, 5527 North 35th Street, Milwaukee.

July 13 & 14: Wisconsin V. F. W. High Power Rifle Tournament & Camp Perry Tryouts, Camp Douglas. Write Jerry Gruber, 3049 North Second Street, Milwaukee.

Wyoming

A* July 4-7: Northwestern Regional Rifle & Pistol Tournament, Fort Francis E. Warren. Write Executive Office, Rifle and Pistol Matches, Fort Francis E. Warren.

OBITUARY

JAMES E. BURNS

Practically unknown to the present generation of shooters, James E. Burns was one of the men most responsible for the present-day pleasures of shooting. Born September 24, 1869, in Lowell, Massachusetts, he studied chemistry for seven years at Lowell Textile Institute. In 1891 he entered the Ballistic Department of the old United States Cartridge Company. He had a great deal to do with the development of more accurate ammunition during the late days of the Krag and the early days of the Springfield, and he was the moving spirit behind one of the first "match grade" .22 Long Rifle cartridges, the old "U. S. N. R. A." brand which was developed for American riflemen at the time that the Dewar Course and 200 yd. small bore shooting first became popular in this country. Always interested in the subject of primers, he was responsible for much of the early research in the direction of trying to reduce erosion and corrosion by changes in the priming mixture. He eventually evolved a satisfactory non-corrosive primer for .22 caliber rim-rifle cartridges and was employed by the Remington Arms Company on January 1st, 1925. A continuation of his experiments there was responsible for the introduction of the Remington Kleanbore brand in 1926.

Mr. Burns had been ill for five months prior to his death at his home in Bridgeport on May 20th. He was buried in St. Patrick's Cemetery, Lowell, Massachusetts. Mr. Burns was another of the old-timers who have helped to make the shooting game as we know it today but who have been unknown and therefore unappreciated by a majority of the men who populate today's firing lines.

STOLEN GUNS

Zeiss "Deltrintem" Featherweight binoculars, central focusing, serial 1765412, with case; Zeiss Super-Ikonta "C" camera and case, Compur shutter number 1249810, number on back of camera A73469. Stolen from A. A. Sanna, c/o Pure Oil Company, 35 E. Wacker Drive, Chicago, Illinois.

Colt Woodsman, serial MT 4414. Stolen from the office of Dr. M. T. Baker, Culver Military Academy, Culver, Indiana.

52 Winchester heavy barrel, serial 32315A. Stolen from Otto Kolb, 4137 Bronxwood Avenue, New York, N. Y.

LENT JOINS N. R. A. STAFF

(Continued from page 36)

to that worked in the Competition Division at National Headquarters. During that time he assisted in the junior school office at Camp Perry, as well as in the handling of the numerous junior rifle division competitions sponsored by the Association.

His first acquaintance with the shooting game was through the medium of his high school rifle team, and when he went to college he was the organizer of a rifle team.

By dividing the junior club and senior club activities, both formerly handled by Goebel, and placing each activity in the hands of an experienced supervisor, it is expected the result will be increased promotion activities, as well as improved service for both the junior and senior divisions.

FOR PENNSYLVANIA PISTOL OWNERS

The controversy over the interpretation of the Pennsylvania firearms code has now been settled in a manner satisfactory to the shooters of the state.

Since 1938, whenever the owner of two guns made application for a permit to carry a pistol he was required to secure two permits, one for each gun, and to pay a second license fee to cover the second gun.

Shortly after this ruling was made the N. R. A. carried a test case to the Court of Quarter Sessions of Delaware County where it was held that a license holder was authorized to carry any firearm, regardless of whether it was listed on the permit.

Despite this Court decision, shooters throughout the state were still required to obtain a permit for each gun, but in a new opinion given to the Commissioner of the Pennsylvania Motor Police by the State Department of Justice, the Court decision has been upheld, so that from this time on only one permit will be required.

"THE GUN COLLECTOR'S HANDBOOK OF VALUES"

By LT. CHARLES E. CHAPEL

Following the trail blazed by Major Gluckman, whose excellent little "Catalog of United States Martial Short Arms" was the first effort toward a careful valuation and appraisal of any group of collector's firearms, Lt. Chapel has attempted to go much farther in compiling a "handbook" setting forth the approximate values of nearly all American firearms, plus a few representative pieces of foreign origin. How well he has succeeded will rest largely with the individual reader. To the casual collector, to the youngster just getting into the collecting game, and to the antique dealer who, more is the pity, may easily check up on the value of a piece before he makes the mistake of selling it at a tenth of its worth, it will be a godsend.

Where the trained collector is concerned, the reception accorded Lt. Chapel's book is apt to be much less cordial. It is difficult to consider as a serious work any book of reference in which such a flagrant error as the description of a "snaphance" rifle with smoothbore barrel is allowed to go unchallenged. A dozen similar passages point all too strongly to the suggestion that the book was hastily compiled as an afterthought, following the success of "Gun Collecting", the author's first. It becomes doubly disappointing when one realizes the value to collectors of such a volume, had sufficient time been spent in its preparation.—JOHN SCOFIELD.

"The Gun Collector's Handbook of Values", by Lt. Charles E. Chapel. 220 pages; 32 plates. Published by the Author, 1195 Begier Avenue, San Leandro, California. Paper binding, \$2.00; Cloth, \$3.00.

DOPE BAG

☆ ☆ ☆ Conducted by F. C. NESS

NATIONAL MATCH PISTOLS

The rules for the National Matches scheduled to be held at Camp Perry, Ohio, between August 18 and September 7, 1940, indicate that certain refinements for improved accuracy will be allowed in the .45 pistols used by competitors in the N.R.A. matches and in the National Matches. In the N.R.A. matches the Colt National Match .45 pistols will be allowed, adjustable rear sight and all. In the National Matches the sights must be fixed, and safety features left unaltered.

In both, the sights must be of unchanged radius (same separation) and of conventional shape, but they may vary in dimensions and the rear notch may be square or U-shaped. The face of front sight may be perpendicular, but it must not be undercut. Bead sights, gold, ivory or red sight-faces are not allowed in the .45 pistol matches. The stocks or grips must be standard or of conventional pattern and the weight of trigger pull must be a full 4 pounds.

From the above it will be noted that no obvious changes are permitted in .45 pistols for the Camp Perry matches. However, concealed accuracy-improvement refinements such as are installed by Frank Pachmayr, Jesse Harpe, A. E. Berdon and L. L. McDonie are permitted providing the other requirements of the rules are fulfilled as to sights, trigger pull and stocks. Our experiments have convinced us the standard stocks are quite satisfactory on the .45 pistol and that the shooter can accustom himself to the 4-pound pull providing it has a uniformly crisp, clean let-off. The sights may be legitimately improved by making the front sight square and perpendicular as to face and by broadening it to 1/8th inch width and enlarging the rear notch to correspond.

Last month we reported the 50-yard results we obtained with the .45-pistols as improved by L. L. McDonie and Frank Pachmayr. The job expected from A. E. Berdon has not arrived, but the one from Jesse Harpe is in. This Harpe is as fine in execution as the very thorough Pachmayr job. It will be fired in direct comparison with the Berdon job for subsequent report as early as possible. Harpe has a standard charge of \$16.50 for his complete accuracy job. The extras are: \$4.50 for installing a new Colt National Match barrel and \$4.00 for installing new wide target sights. Any new parts such as sears or hammers which are installed are added at current factory list prices.

Harpe makes a barrel bushing of tool steel and fits it by hand to the pistol slide, and a new recoil-spring plug is made to fit this bushing. Then the inside of the bushing is ground to fit the barrel. The cost of this much is \$6.50. While it is the most important part of the complete job, more is required for fine accuracy.

The barrel is turned down and polished except the end fitted closely to the bushing, which latter is merely polished. A new link is made and hand-fitted to the barrel lug and individual barrel to force the latter against the top of the slide. The barrel projection or extension is built up so that there is no play of the barrel in locked position. The trigger pull is adjusted to a full four-pound weight and all back-slap and play removed. All contact points in the action are polished and numerous minor adjustments are made. This part of the job costs \$10.00.

The purpose of all such alterations and adjustments is to make the parts operate uniformly and especially to make them return to the same identical position each and every time. When they do this we have uniformity

of gun condition and, hence, accuracy, limited only by the intrinsic accuracy of the barrel and load and by the uniformity of the ammunition from cartridge to cartridge. This, as stated in a previous issue, is the essence of the Pachmayr job. The proof will be obtained in our shooting, and we hope our results will tell that story.

FINE ITHACA PUMP GUN

Our M-37 Ithaca slide-action repeater, serial No. 2185, was built in 1937. Only 15 guns later, or after No. 2200, two important improvements were incorporated in the design. Any reader who has an M-37 Ithaca below that number should send it at once to the Ithaca Gun Company, Ithaca, N. Y., for a new breech block with double extractors and a new slide which will obviate "doubling the trigger" or firing repeatedly with the slide or without conscious "pull." These changes will be made without charge. Act early and avoid the rush.

This latter "doubling" has caused me some embarrassment when using my M-37 at Skeet ranges. The new slide to overcome this fault is being installed as I write these lines. The new double-extractor breech block will also be welcome, although my gun failed to extract on only one occasion and that was with questionable ammunition which "blew" its primers.

Based as it is on the old Remington M-17 action, of which I have been a faithful admirer, the Ithaca M-37 has been a beautiful, smooth and very fast pump gun. Mine is a 12-gauge which weighs only 6 1/2 pounds and it is about the fastest handling 12-gauge I have handled. It is not only easy to burst ejected shells with it, but I found these can be hit regularly when ejected straight out not much more than hip high. My gun is already equipped with the Poly-Choke and the very practical 1X Weaver shotgun scope sight. From Ithaca it and an extra barrel will go to Bill Weaver for the new Weaver Choke which we want to try for the information of our readers.

NEW MATCH RIFLES

Our two leading small-bore match rifles are the "last word", fully equipped and factory furnished, all ready to go on the firing line of important competitions. The two factory samples which we tried are the target-stocked and heavy-barreled M-52 Winchester, with Marble-Goss rear sight and Lyman No. 77 front sight, and the M-37 Remington with special Remington rear sight and Redfield front sight.

The Remington and Winchester standard match rifles have adjustable sling positions and adjustable (extension) rear-sight positions. Both are very accurate rifles, as they must be to qualify for competition employment. Both have excellent sighting equipment. In stock models of these match rifles Winchester has had unusual success of late with their new complete system of "elastic" bedding using Neoprene support buttons, fore and aft, in the barrel groove and a flexible fastening of their lower band.

When the reader considers our groups he must remember we take them as they come in order to present an average performance with our reported results rather than the peak performance. They were not fired indoors from machine rest, but from bench rest outdoors in a mild, lazy, 3-to-5-mile wind. In this test they were all fired by the same shooter on the same day (yesterday by Barr). The day was warm, clear and moist, a good one for small-bore testing. The range was 100

yards. Our best test scope was used on both rifles. This was the 15X Lyman Targetspot with fine cross hairs and small center dot by T. K. Lee.

New Winchester M-52 (1940)

W.R.A. Staynless (Army Lot-216) was fired first, 50 shots. The average per 10-shot group was 1.704 inches, center-to-center. The first and third groups were smallest, 1.50 and 1.48 inches. The best 9 shots were 1.23 inches and the best 8, 0.97 inches.

R.A. Kleanbore (W13T-39) was the next 50-shot string. It averaged 1.77 inches. The second and fourth groups were best, 1.47 and 1.48 inches. The smallest 9-shot group was 0.98 inch.

R.A. Targetmaster (27R-36) averaged 1.372 inches. The first four groups ran: 1.50, 1.32, 1.33 and 1.24 inches. The best two 9-shot groups were 0.95 and 0.78 inch.

W.R.A. All-X Match (1940) averaged 1.68 inches. The third and fourth groups were best, 1.48 and 1.56 inches. The best 9 shots made 0.97 inch.

W.R.A. EZXS (HS-39) averaged 1.30 inches. The first and last two groups were best, 1.16, 1.20 and 1.00 inches. The two best 9-shot groups were 0.75 and 0.88 inch.

Some special ammunition having .041 head-space length as selected with Roy Gradle's special mike was also tried. These thirty rounds of Western Expert averaged 1.713 inches, the best group being 1.55 inches. Ten rounds of Peters Tackhole (TH6L) made 1.80 inches with 9 in 1.32 inches.

In our 52 Winchester with Thomas-Womak trigger and Bucklin stock, as tried with the latest Marble-Goss receiver sight and Redfield front sight that same day, the best 10-shot groups were obtained with R.A. Hi-Skor. W.R.A. EZXS and Peters Tackhole. In order, these ran: 1.44, 1.46 and 1.38 inches. This is fair enough for metallic sights outdoors. Barr's Hubalek-52W was fired (with Whittek-Vaver rear and Wagner Semi-Scope) only 30 shots, all with W.R.A. Staynless (Army Lot-216), and the groups ran: 1.14, 1.48 and 1.38 inches. The first group had 11 shots with 10 in 0.67 inch.

Results with the 1940 Remington M-37 "Rangemaster," fired on the same day, will be reported next month.

.280 DUBIEL DIMENSIONS

The .280 Magnum made by necking down the .300 Magnum, by the Niedner Rifle Corporation, is growing in popularity. Shooters who own it and a fine .300 Magnum tell me they prefer the .280 Dubiel Magnum especially for long-range effectiveness. The .280, they say, is fully as accurate and possesses a flatter trajectory and harder striking velocity owing to greater sectional density of its better bullet. Bullets in this caliber are made by Western Tool & Copper Works, of Oakland, California, by Fred N. Barnes, of Bayfield, Colorado, and L. W. Youngberg of Chicago. Cases and rifles can be obtained from the Niedner Rifle Corporation of Dowagiac, Michigan. Any .300 Magnum action can be used.

Through the courtesy and fine cooperation of the latter firm we have been furnished the Niedner dimensions for the chamber and the maximum cartridge. These are all shown on the drawing prepared by Fred Hakenjos. For simplification, both chamber and cartridge dimensions are indicated on a single drawing. The Niedner bore diameter is .280 inch with a groove diameter of .2880 to .2885 inch and a twist of one turn in ten inches.

GRADE-SHOOTING ERROR

Long ago, in *THE AMERICAN RIFLEMAN*, M. J. Patterson established as a scientific fact that errors in impact or zero arise from shooting up hill or down hill. We had pretty much to say about it, under "Vertical Shooting", in the *Dope Bag* of March, 1938. Whether the angle of our fire is above or below horizontal (uphill or down) we invariably shoot higher than on the level with the identical point of aim, range and sight adjustment. The error is always there, but usually it is so slight as to escape the attention of the marksman. It depends on the angle of the slope and the gravity-drop of our bullet (sight-allowance).

In our article, referred to above, we quoted the slope-error for different angles of fire, ranging from 15° to 90°, as based on bullet drops of 14, 44 and 63 inches. The .22 Long Rifle bullet has a gravity drop of about 14 inches over the first 100 yards. At an angle of 15°, up or down hill, the .22 rifle zeroed on the point of aim (14 minutes elevation on the sights) will shoot about 1/2-inch high, the slope error being 0.48 inch at 100 yards. For a 30° slope the error is 1.88 inches, when other conditions and factors remain the same as above. The slope error is calculated by the formula, $D(1 - \cos \theta)$. The cosine of the angle of fire is subtracted from unity (1.0000) and multiplied by the bullet drop in inches. It is obvious that the drop must be considerable to make any slope error apparent.

Not long ago Colonel Whelen called my attention to the fact that Paul Estey had tried some slope shooting with the .220 Swift at an angle of about 30°. The bullet drop of Estey's load was insufficient to establish any obvious slope-error over his range. This is recognized by the formula, and, as expected, his targets show very little difference in impact, or only 1/4-inch slope error at 136 yards.

Now, to find what would happen were a caliber having considerable bullet drop to be substituted in the same experiment, we tried the .22 Long Rifle with Winchester Stayless at 100 yards. The angle was between 10° and 25°. Our protractor gadget (Universal-Angle Level) said it was 13°, and, while that appeared to be correct, it is possible the angle was twice that. On the horizontal, the 100-yard zero was established by shooting a 10-shot group on the point of aim. This scored 100 directly, 7 X's and 3 tens, indicating it was well centered on the S.A. small-bore target. The next 10-shot group, fired uphill at the same range, landed on the nine-ring nearly 2 inches higher, or exactly 1.95 inches above the first group fired on the horizontal line.

Then we took a cartridge which had very little bullet-drop and repeated the experiment. This was the 2-R Lovell with 16.0 grains of 1204 powder behind the Sisk 35-grain bullet. The horizontally-fired group established the zero just 0.15 inch below aim. The next one fired up hill landed only 0.03 inch higher because that speedy load has very little bullet drop, hence a negligible slope error over short distances.

JULY HANDLOAD

Ed J. Wilhelm of Pittsburgh, sent in the load of the month. He uses the M2 150-grain Service bullet in his Springfield target gun and gets 1-inch to 1 1/2-inch groups, aiming with the 3X Weaver scope. His load is 45.0 grains of I.M.R. No. 4320 and the W.R.A. No. 120 primer. I calculate the m.v. to be 2600 f.-s. in the 30-inch barrel, or 2450 f.-s. in a 24-inch barrel.

LETTERS

Flat-Faced Bullets. I much appreciated "Twist and Bullet Shape" for the new ideas it gave, and I should like to add that the accuracy of the flat-faced (wad-cutter) bullet at short range probably equals or excels the accuracy of the pointed bullets.

The short-range superiority of the flat-faced type is not without reason. The head-resistance component acts in the inward direction thus tending to hold the bullet face on. Thus this characteristic is the reverse of that of the pointed bullet, of which the radial component of head resistance acts outward, thus tending to overturn it and being capable of doing so except for the opposing torque that accompanies precession.

There is another interesting fact in this respect. As might be expected, the reversed component of the flat-faced bullet is accompanied by reversed precession, to which effect the statement is made by some authority, I cannot recall who, but perhaps Dr. Mann, that flat-faced bullets really do precess backward.

In relation to trajectory path, the combination of inward thrust and reversed precession thus tends to hold the flat-faced bullet face on, whereas the similar combination causes the pointed bullet to swing in wider circles as it progresses on its way. As a consequence, the tendency of the flat-faced is to hold straighter into the wind, and this gives it the reputation of being extremely accurate over its limited range.

Now in the case of the blunt bullet—a rather indefinite description—the characteristics will be somewhere between those of the flat-faced and spitzer types. But the term, "blunt" may also include the flat-faced, and, if so, it seems hardly fair to make a general comparison without either excepting this type or noting its favorable peculiarities of behavior.—J. M. GRIGG.

Handy Grinders. I am in the market for a small hand-grinder and the Moto-Tool at \$10.00 looks like a mighty good value. However, the new Speedway grinder at \$6.00 is attractive because of its lower price. Could you tell me if this grinder (Speedway) has sufficient power and is of high enough quality to be used for extensive home gunsmithing work? (Also light drilling work).—D. N.

Answer. The Speedway has two tools, the drill is a separate tool, including motor to give 1000 r.p.m., while the grinder is geared up much faster than that. The Speedway grinder is not so handy in the hands as the Moto-Tool or the Handee Grinder, and I returned my own, but kept the drill, which I have found to be very useful. We use the Handee Grinder in our work shop here at the office and I use the Moto-Tool in my work shop at home in connection with the Speedway handy drill.

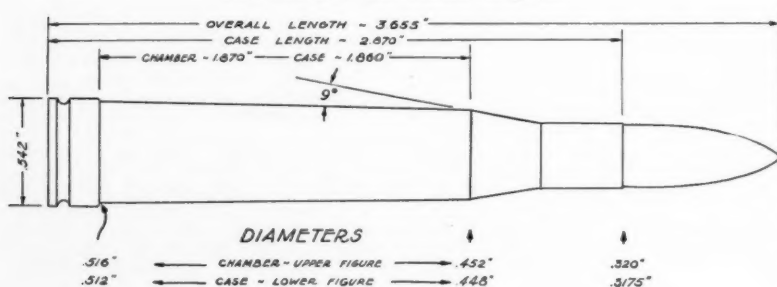
I think the Speedway is a little more dangerous to the fingers than the Moto-Tool, because of the awkward shape and the incomplete guards provided which I have criticized to the company. This, however, is not as bad as my remarks might make it seem as I was criticizing it from the ideal standpoint. I still think it is very practical as it is, although I personally prefer to handle the more slender and longer Moto-Tool for the same class of work. About the only expense connected with these tools are the little grinding wheels which you will have to buy, and that is true of all makes. The Moto-Tool has very easily replaceable brushes, there being two of them worth 20¢ each. Since this is the only part that wears out, I think the Moto-Tool would be the most economical in the end.

Likes Sorensen Mounts. Also I read your review on scope mounts with much interest. From your interesting review I got the impression that the Sorensen mount that you saw must have been an old model. The new models have a built-in, turn-down peep sight with a good windage adjustment. In some of his early models the windage adjustment for the scope had a screw on one side and a spring opposing it on the other side. This didn't work so good so now the cradle in the rear fits on a slot similar to the windage slot in a 48 Lyman and has a screw at each end. The windage is obtained by backing off one screw and tightening the other one. The elevating screw remains about the same. The base of the scope clamp-ring, (the part containing the ball) has been lengthened to 2 1/4 inches overall or 1 1/2 inches each way from center of the ball. With this long base the scope surely goes back to zero. The clamping itself has been skeletonized or made in two pieces, there being two thin rings about 3/8 inch wide (each one). I like these mounts very much. I got one and liked it so well that I bought three more. All four of these mounts are all one could ask for. They don't look very strong, but I believe they are amply strong for all ordinary conditions including severe bumps. As to their going back to zero when the scope is removed and replaced, they will surely do that. I had one put on my Model-70 Winchester Hornet in November of 1939. The gun was sighted in at the time and hasn't been changed in any way since. It will shoot close enough to pick the heads from cotton tail rabbits up to 150 yards from rest, right along, as the rabbits sit on prairie-dog mounds. This gun will pick off magpies with pleasing regularity up to 100 to 125 yards. The scope I use on this outfit is an A-5 Winchester. The other three mounts are on a .25-35 Heavy Barrel S-S. Winchester, a .257, 30-S Remington and a .30-'06 Enfield. I use a Unertl hunting scope on these latter three rifles.

When I come in from hunting I always remove the scope from the rifle. All the variation I get in zero of these rifles over a period of time seems to be no more than normal. In fact, the Hornet (mine) doesn't vary nearly as much as most reports say that the other Hornets do. So far the aforementioned reasons I am much pleased with the Sorensen mounts and the way they go back to zero when the scope is removed and replaced.—Claude L. Simmons.

Likes Sloan's Score Book. Lt. Sloan besides having won the National Individual in 1929 has always been a keen student of military shooting. He compiled shooting data for Col. Easley while they were still team members of the Inf. Team. The first few pages of directions to use his score are almost a complete education in military-rifle shooting, including Col. Easley's wind clock, tables of elevation changes—he has also noticed what a few of the keener students of shooting have found out for themselves (but he is the first to publish it) that a minute on the O'Hare mike is really about a minute and a half.

The Niedner .280 Dubiel Magnum



What I like best is his consolidated dope sheets in the front of his book. These enable you to compare data without thumbing back and forth through your book, and bring to light things that would otherwise be overlooked as tendencies toward normal changes—sudden normal changes with a new rifle—effect of light which is a variable with every shooter and must be studied out by him—no one else can do it for him.

Last year I ruled paper and used this consolidated system without bothering keeping shot to shot details in the regular manner (not recommended for beginners) and had one of my best years of the twenty I have been shooting.

Most small-bore shooters don't bother keeping any books except in their head, but now that Lt. Sloan has made them such a good book, many of them would be way ahead if they kept at least the data in the consolidated portion instead of asking some old timer how much he comes up from 50 to 100 instead of wasting their time taking extra sighting shots with the time limit hazard always against them.—CAPT. E. S. HICKER.

A Word to the Wise. Our sports writers, experimenters, handloaders and high speed fiends, in reference to testing their many concoctions for penetration on steel almost always fail to mention the danger encountered in this practice.

In the interest of public safety and hoping to save some unknowing shooter from possible serious injury I wish to relate the following incidents in my many experiments with high-intensity and high-speed guns, in which I escaped injury, not by good judgment but by pure luck.

On testing my new .276 Newton Magnum on 13/16th steel, at twenty-five yards, one day, a 123 grain bullet passed through the plate just far enough to completely break out a disk about 1/2 inch in diameter on the other side, then reversing its energy came back, and just as the recoil of the gun pushed my shoulder back, struck my wallet.

I wish to state at this time that the sensation was very unpleasant, much like that of a plank striking me on the seat of the pants. It impressed me, at the time, that it was quite a deep seated recoil, for a moment I could not quite comprehend what had happened. Upon examination I felt a hole in my trousers right over top of my wallet. Further investigation proved that the ricochet, for such it was, had struck me a glancing blow, cut right through two thicknesses of leather, a dozen miscellaneous bills, membership cards, papers and etc., continuing on to fall about twenty-five yards in back of me.

A recurrence of almost the same thing happened a few days later when, shooting at fifty yards offhand, a terrific load, incidentally an attempt at duplex loading, tore a one-half inch hole, through a 13/16th piece of gear blank, driving the pieces clear through the limb of an apple tree behind it, picked up that ten inch disk, spun it around like a top and at about the same time I noticed a sharp pain in my thumb as well as a very pronounced thud against the wall of the house in back of me. I found my thumb to be only grazed. A careful search revealed that the ricochet was the jacket of a Western Tool and Copper Works bullet, torn sharp and ragged, and completely turned inside out, with the marks of the rifling on the inside. To say by this time I had learned my lesson is putting it mildly.

Can you imagine what would have happened to my face had that piece of jagged metal struck me there?

I am relating these foolhardy incidents, not for profit, but in the hope that they will be read and remembered by fellow shooters.

The moral to this tale is always be behind some object that will render a rebounding

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shot harmless, especially if you are shooting at less than one hundred yards.—LEONARD L. AURAND.

Another Don't. May I add one more "don't" to the list of rules for reloaders? If you prefer to keep your trusty Springfield or Enfield, or What-have-you, all together as nature intended—Don't remove the crimp from the primer pockets of Frankford arsenal cases with a pocket knife, improvised reamer, or any such clumsy tool. There is a fellow named Schmitt up around Minneapolis somewhere who makes a very satisfactory primer-pocket punch, for six bits, which does a swell job, and it's a lot cheaper than a new rifle, not to mention a shiny, new, glass eye. If your primers fit a bit too loosely, I found they have a tendency to take rifles apart without the formality of loosening the screws.—JOSEPH R. LONG.

TRADE DOPE

New Standards for match-type small-bore rifles and mated ammunition are being established. Fine rifles and loads must be mated to get fine results. Recently an order for a dozen M-52 match rifles was filled from stock, the only special attention being re-bedding with Neoprene (synthetic rubber) buttons. These twelve were routine tested with Lesmok EZXS at 100 yards indoors and the smallest 10-shot group from machine rest was .79 inch center-to-center (scoring diameter, .57 inch). Five 10-shot groups were fired with each rifle and the 600 shots averaged, center-to-center, 1.08 inches per group. Eight other stock rifles were similarly tested on the machine rest indoors and averaged 1.04 inches per 10 shots. The biggest group was 1.17 inches, center-to-center, and the smallest, .085 inch.

At the Seagirt Memorial Day matches, held over the last week-end, 98 of the 166 shooters used Lesmok EZXS, and won ten first-places. W. R. A. told me that formerly their smokeless variety of this load averaged 0.2 to 0.3 inch greater spread, but now the smokeless EZXS were practically as good, or only 0.1 inch behind the Lesmok version.

S. Dunham of Willits, Calif., has a tow pull-through, with cord and dropper, which he advocates for prompt and convenient cleaning of rifle bores in the field, after the last shot is fired. He uses 3-in-One or any other good light oil on the tow and claims this habit of frequent cleaning, once formed, makes the chore easy and, when practiced, insures a clean, slick bore and an accurate rifle. We believe in a more thorough cleaning in the evening but agree with Dunham that the habit of frequent attention is a good one.

Yellowstone Arms Co., has a new action-job on the M-1917 which positively cocks on the upturn of the bolt handle and without withdrawing the bolt. We have tried it and know it works as claimed. The lock time or striker travel is shortened very slightly. It is done by a very neat welding job and by leaving the cam surfaces very hard to curtail wear and excess friction. This was installed in our Yellowstone Sporter which had acquired a warped forestock when shifted from dry Montana to damp D. C., here. After re-bedding the acclimated and stabilized walnut it has become more accurate. Our groups with blade and peep sights now equal the best we've seen with M-1917 rifles.

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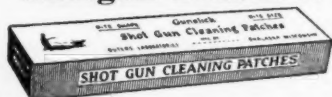
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CHRISTY'S GUN SHOP

Sacramento, Calif.

Lysle D. Kilbourn wants me to caution our readers about factors which influence pressures and might possibly cause trouble in full-power handloads. After chambering and converting a great many Hornet rifles to the improved Kilbourn caliber he has accumulated a number of interesting facts important to the matter at hand. For one thing he has been surprised to find that nearly every Hornet rifle of any make comes to him with excess headspace. The maximum allowable with rimmed cases is .010 inch and less than half of that would be desirable. Kilbourn has a hardened F.L. sizing die, at \$3.00, which reveals any stretching of case necks. The projection may be ground or filed flush with the die to avoid high pressures from too-long cases.

More importantly, however, is the fact that many barrels have groove-and-bore diameters smaller than usual, some of them too small for standard .224-inch bullets. This means the individual outfit requires individual attention in handloading, some of them requiring smaller bullets or lighter charges of powder to stay within the safe zone of reasonable chamber pressures. The W.M. 8-S bullets offer greater resistance and develop higher pressures as compared with Sisk or factory bullets of the same weight. Another fact is that Remington Hornet cases are thinner than those of W brand, and when reformed, accommodate slightly heavier charges, but the primers of Remington cases are prone to leak with such loads. In other words, look to your outfit and use the loads to which it is limited instead of blindly copying the heavy loads of others. Also, loads for repeaters require a shorter overall and a greater seating depth which calls for less powder.

American Optical Company, of Southbridge, Mass., have a new streamlined shooting glass in their Ful-Vue frame which fits the face closely, conforming its large special-shaped lenses to the lines of the nose, brow and cheek. Two results are obvious: wider-angle vision and greater protection when a primer leaks gas or when a case breaks in the chamber. The sweat bar, nose pads and temples are all covered with attractive zylonite for added comfort and to forestall corrosion. The tints of the special Calobar and Noviol lenses are, respectively, in the blue-green range and in the yellow-amber. Calobar is for screening out glare and irritating light rays, while Noviol is designed for intensifying detail and light on dull days. Either lens may be had plano or ground to prescription. No prices given.

R. A. Litschert sent in his new Model "C" 6X scope which we think "takes the cake" for small-game shooting. It has the finest cross hairs we have seen, of split spider-web, and a small center dot. Better than any of the standard Litschert conversion jobs, this complete Litschert scope has proven prac-

tical in poor light on account of the brilliance of its image. It lists at \$25.00 with target mounts, or \$20.00 alone, and is one of the best varmint-scope values called to our attention. An advantage of this 6X is that it can be focused at midrange and then used at all ranges in chuck and crow shooting. He can furnish his scopes with 1 3/4- or 3-inch eye relief and with fine or medium cross hairs. Better consider this one.

Our check shows a field of 16 1/2 feet at 100 yards, with center dot covering 1 1/4 inches (on the big side) and hairs covering 3/16 inch. The resolution is normal for a 6X, or 1/8 minute of angle, and the definition is good. In fact, the illumination, definition and resolution proved superior to those of a 10X target scope with which it was directly compared. The objective diameter is 1 1/4 inches.

Wilkins and Neighbor, guides and outfitters of Jasper, Alberta, Canada, are a pack-horse outfit without permanent hunting camps. Horseback riding as the exclusive means of travel makes the entire surrounding mountain country open to their parties, because they are independent of roads or trails. As a consequence, unique vacation trips in the Canadian Rockies can be offered in the summer as well as all-around game hunts in season (sheep, goat, moose, caribou, deer and bear). Bert Wilkins wrote that they know their country, which they should after 25 years' residence.

Vernor Gipson has severed his connection with the Niedrer Rifle Corporation and has removed to 3018 W. Jackson St., Indianapolis, Ind., where he is building rifles. His latest varmint rifle is a 6-mm., driving a 90-grain bullet at 3700 f.-s. If at least 20 cartridges are furnished, Gipson will chamber for any odd case, bar none of a practical nature.

Glyco Products Co. Inc., of 148 Lafayette Street, New York, N. Y., announces Acrawax, a synthetic wax. In Series B it is soluble in mineral spirits and useful as a flattening agent for paints. In Series C it has a high melting point (275° F.) and useful for raising that of other waxes with which it may be blended. Synthetic Diglycol Stearate S, a white wax-like solid, was announced in these columns several years ago as a lubricating binder and emulsifying agent. Nondrying Diglycol Laurate S is another emulsifying agent useful for softening water-soluble gums, resins and waxes. Glycoseal is a flexible joint seal for rubber and metal containers or conductors of oil, turpentine, naphtha, tar or substances other than water or water-soluble liquids. Hevealac is an elastic finish for rubber products. Abopon is a synthetic flameproofing agent for fibrous materials.

The American Cystoscope Makers, Inc., of 1241 Lafayette Ave., Bronx, N. Y., makes a Sight Projector, at \$12.00, which is well worth the attention of any coach or instructor, because it enables him to detect shooting faults immediately and so correct them before the pupil can form handicapping habits. It projects a sighting picture of pistol or rifle sights in alignment, visible to instructor, pupil and other classmen at the same time.

Sun Glass Institute, Inc., 366 Madison Ave., New York, N. Y., has informed us that the U. S. Department of Commerce has issued two releases through the National Bureau of Standards for informing the public on identifying and selecting good sun glasses from the poor and harmful. These two Commercial Standards, CS78-39 and CS79-39, are for sale at five cents each through the Super-

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Browning Arms Company of St. Louis, Mo., which for years has assembled and sold the Belgian-made shotgun parts of their fine line of autoloading and super-posed guns, is informing its authorized dealers that World War II has greatly limited available stock by shutting off production in Belgium. Orders will be filled as completely as possible and in the order received. Service and repairs on Browning arms will be continued as usual. The 16-gauge autoloader, designed for 2 3/4 cases, can be converted to handle 2 1/4 cases of the new Remington wadless crimp. The charge is \$3.75 extra on new Brownings and \$5.85 on the customer's gun.

Searamuzzo & Sons, custom gunsmiths, of 604 Blue Island Ave., Chicago, Illinois, sent in a fine pair of checkered ivory stocks for the Model D Hi-Standard pistol to which they were immediately transferred. They seem to feel better than the standard walnut stocks of the same pattern, perhaps on account of some slight difference in checkering. These ivory stocks are very attractive against the dark blue finish of the pistol. We find these stocks improve our scores over the latest factory stocks which have a modified thumb rest. No prices or particulars received.

Hunter Arms Co., Inc., of Fulton, N. Y., makers of the famous L. C. Smith double gun, sent me their illustrated catalog of some two-dozen pages and, believe it or not, this is the very first of their literature which I remember seeing. I knew of the firm before, of course, having owned side-by-side "Elsies" of their make, and I can say that the L. C. Smith is one of the best handling shotguns on the market. This has recently been furthered by the high-rib feature which gives their Field-grade double a single sighting plane. Characteristics are the Smith rotary bolt and Smith lock-plates.

In these two-trigger models a half-dozen grades are available in addition to the \$48.50 Field. These are, in order, the Ideal, the Specialty, the Crown, the Monogram, the Premier and the DeLux, with list prices ranging from \$63.25 to \$1,200. There is also the Skeet Special model with Hunter Single-Trigger in the \$100.00 range and 6 different grades of single-barrel trap guns ranging from \$114.00 to \$1,178.00. A series of popular-price, Hunter Special and Fulton models, completes the line.

Charles McCormack, Route 1, Middle-town, Indiana, has a micrometer caliper with an auxiliary, grooved mandrel to take .22 rim fire cartridges and provide a rim seat so that variations in thickness may be detected. This selection gauge was shipped before April and reached our division some time later. We have had ample time to try it and to learn that it does the job. Our results will be reported in an early issue.

The way it is used is to rotate the cartridge with the thumb and note whether the rim is of uniform thickness. This may vary as much as .003, and a variation of .002 makes ignition and accuracy somewhat of a gamble. Those cartridges whose rims vary .001 inch or less are segregated for match use, the others being fired for practice or less important purposes.

Fred T. Huntington, Oroville, Calif., says that the best source of Japan wax is your laundry, which buys it in 25-pound or larger lots for use in laundry starching mixture. Your nearest laundry will probably sell a

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pound to you for about 40 cents. If not Mr. Huntington has offered to supply those N.R.A. members who cannot get it elsewhere. He is the same lad who discovered that (Zoric) dry cleaner's solution will take the place of caustics in cleaning ferrous metal for bluing.

Central Wisconsin Cartridge Collectors, in charge of Paul Wruwink, Wisconsin Rapids, Wisconsin, buy, sell and exchange obsolete cartridges. They have a mimeographed list available with prices, if you are interested.

Shooters Service Co., have targets for sale and 5 1/4 x 9 1/4 data cards for shooting records in score-book form, but both loose-leaf, at \$1.25 per 100 cards, and in an aluminum holder at 25 cents extra. On the back of each card is printed useful information giving full details on the minute rule, wind rule and, in connection with Service Springfield sight, the sighting rule and the wind-gauge rule.

Drew T. Bowers, 160 Fenimore St., Brook-lyn, N. Y., has a brass rod-case for the Parker-Hale cleaning rod. The cleaning tip is removed and the threaded end of the rod is turned into the bottom of the container to insure security. The soft-washer muzzle buffer, near the handle, closes the other end. Bowers also sent in a bottle of Sta-tite which is a liquid elastic cement for patching or repairing paper, fabrics and leather. This worked very well. It can be used for mending or fastening covers on shooting kits, or for attaching brassards on shooting coats.

South Bend Lathe Works have a large-size, 72-page illustrated catalog (No. 97) which will interest every shop owner who needs or uses machine-shop equipment. Without listing its contents, I'll recommend that you send to South Bend, Indiana, for your copy and see for yourself. Their address is, 425 East Madison Street.

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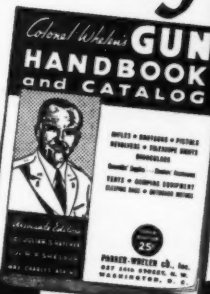
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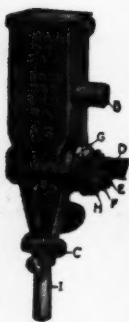
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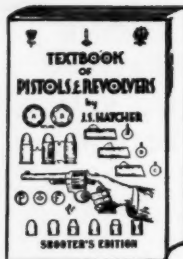
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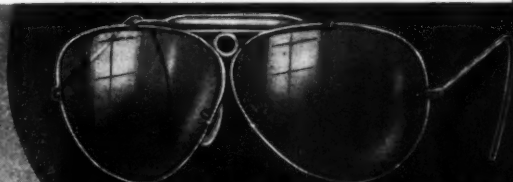
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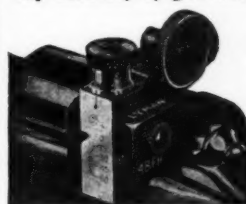
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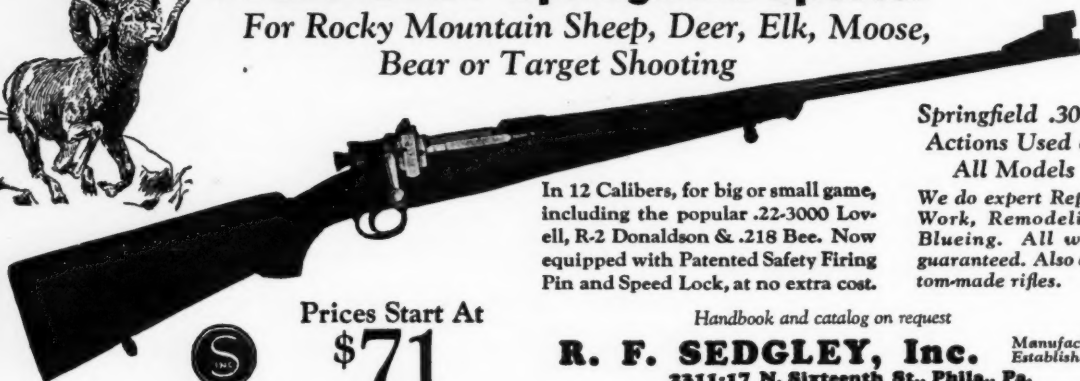
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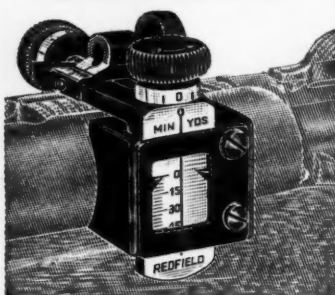
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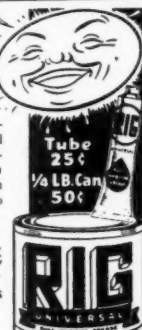


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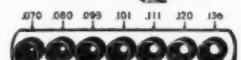
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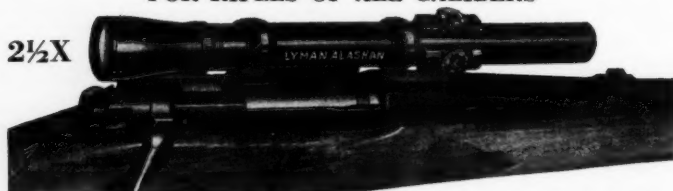
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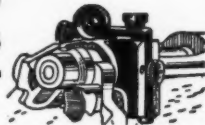
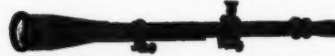
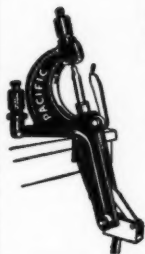
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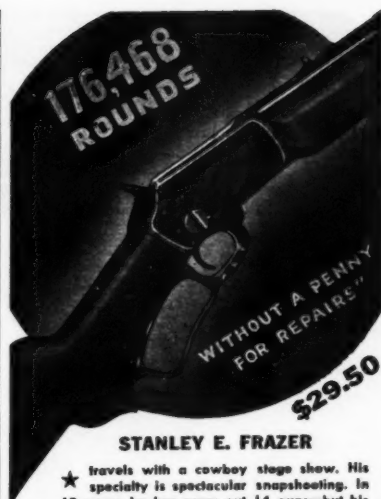
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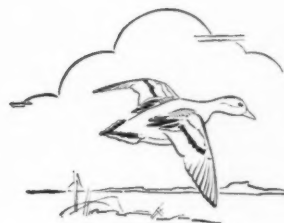
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